Genie®

Parts & Service Manual

Refer to inside cover for additional serial number information

Part No. 80140
Rev B3
April 2006

Superlift™ Contractor

Important

Read, understand and obey the safety rules and operating instructions in the appropriate Operator's Manual on your machine before attempting any maintenance procedure.

Basic mechanical, hydraulic and electrical skills are required to perform most procedures. However, several procedures require specialized skills, tools, lifting equipment and a suitable workshop. In these instances, we strongly recommend that maintenance and repair be performed at an authorized Genie dealer service center.

Technical Publications

Genie Industries has endeavored to deliver the highest degree of accuracy possible. However, continuous improvement of our products is a Genie policy. Therefore, product specifications are subject to change without notice.

Readers are encouraged to notify Genie of errors and send in suggestions for improvement. All communications will be carefully considered for future printings of this and all other manuals.

Serial Number Information

Genie Industries offers the following Service Manuals for these models:

Title	Part No.
Genie Superlift Contractor Parts and Service Manual, First Edition (before serial number 9595-101)	33953

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80140 Rev B August 2004
Second Edition, Second Printing

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♻ Printed on recycled paper

Printed in U.S.A.

Safety Rules

Warning

Failure to obey the instructions and safety rules in this manual and the *Genie Superlift Contractor Operator's Manual* could result in death or serious injury.

Many of the hazards identified in the operating instruction manual are also safety hazards when maintenance and repair procedures are performed.

Do Not Perform Maintenance Unless:

- ☑ You are trained and qualified to perform maintenance on this machine.
- ☑ You read, understand and obey:
  - manufacturer's instructions and safety rules
  - employer's safety rules and worksite regulations
  - applicable governmental regulations
- ☑ You have the appropriate tools, lifting equipment and a suitable workshop.

Personal Safety

Any person working on or around a machine must be aware of all known safety hazards. Personal safety and the continued safe operation of the machine should be your top priority.

Read each procedure thoroughly. This manual and the decals on the machine, use signal words to identify the following:

Safety alert symbol—used to alert personnel to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠DANGER Red—used to indicate the presence of an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠WARNING Orange—used to indicate the presence of a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠CAUTION Yellow with safety alert symbol—used to indicate the presence of a potentially hazardous situation which, if not avoided, may cause minor or moderate injury.

CAUTION Yellow without safety alert symbol—used to indicate the presense of a potentially hazardous situation which, if not avoided, may result in property damage.

NOTICE Green—used to indicate operation or maintenance information.

Be sure to wear protective eye wear and other protective clothing if the situation warrants it.

Be aware of potential crushing hazards such as moving parts, free swinging or unsecured components when lifting or placing loads. Always wear approved steel-toed shoes.

Workplace Safety

Be sure to keep sparks, flames and lighted tobacco away from flammable and combustible materials like battery gases and engine fuels. Always have an approved fire extinguisher within easy reach.

Be sure that all tools and working areas are properly maintained and ready for use. Keep work surfaces clean and free of debris that could get into machine components and cause damage.

Be sure that your workshop or work area is properly ventilated and well lit.

Be sure any forklift, overhead crane or other lifting or supporting device is fully capable of supporting and stabilizing the weight to be lifted. Use only chains or straps that are in good condition and of ample capacity.

Be sure that fasteners intended for one time use (i.e., cotter pins and self-locking nuts) are not reused. These components may fail if they are used a second time.

Be sure to properly dispose of old oil or other fluids. Use an approved container. Please be environmentally safe .

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Parts Stocking List

Required Parts

The following parts are required to perform maintenance procedures as outlined in the *Genie Superlift Contractor Parts and Service Manual.*

Description	Part No.
White Lithium Grease	91670
Cable Replacement Coupler	12402
Disc Brake (One Speed Winch)	7571
Disc Brake (Two Speed Winch)	80157

Recommended Parts

Description	Part No.
Genie Gray Paint, 12 Ounce (355 ml) Aerosol	1268
Genie Blue Paint, 12 Ounce (355 ml) Aerosol	1484
Genie Blue Paint, 1 Gallon (3.78 liters)	32150
Genie Gray Paint, 1 Gallon (3.78 liters)	32151
Pinion Plate (One Speed Winch)	7591
Pinion Plate (Two Speed Winch)	40122
Ratchet Gear (One Speed Winch)	6777
Ratchet Gear (Two Speed Winch)	40121
Pinion Gear (One Speed Winch)	7590
Pinion Gear (Two Speed Winch)	80157
Pinion Shaft (One Speed Winch)	32891
Ratchet Pawl Kit (One Speed Winch)	40458
Ratchet Pawl Kit (Two Speed Winch)	40117
Cable Keeper Kit (One Speed Winch)	6190
Primary Shaft Assembly	72264
Cable Assembly (SLC-6 models)	35143
Cable Assembly (SLC-12 models)	35144
Cable Assembly (SLC-18 models)	35145
Cable Assembly (SLC-24 models)	35146
Pin Assembly with Lanyard	32940
Roller Bolt, $^1/_2$-13 x 1.84 inches	32475
Nylatron Roller, 1.75 x 0.72 inch	32473
Safety Brake Assembly	35101
Genie Superlift Cabling Procedure Video	52701
Loctite Thread Lock	65764

Manuals

Genie Industries offers the following support documents for these models:

Title	Part No.
Genie Superlift Contractor Operator's Manual, Second Edition	33547
Genie Superlift Parts and Service Manual, First Edition	33953
EMI Safety Manual	27581

How To Order Parts

Please be prepared with the following information when ordering replacement parts for your Genie product:

- ☑ Machine model number
- ☑ Machine serial number
- ☑ Genie part number
- ☑ Part description and quantity
- ☑ Purchase order number
- ☑ "Ship to" address
- ☑ Desired method of shipment
- ☑ Name and telephone number of the authorized Genie Distributor in your area

Use the Service Parts Fax Order Form on the next page and fax your order to our Parts Department.

If you don't know the name of your authorized distributor, or if your area is not currently serviced by an authorized distributor, please call Genie Industries.

Machine Information

Model

Serial Number

Date of Purchase

Authorized Genie Distributor

Phone Number

Genie North America
Telephone (425) 556-6551
Toll Free (877) 367-5606 in U.S.A. and Canada
Fax (425) 556-8659

Genie UK
Parts Telephone (44) (0) 1476 584352
Parts Fax (44) (0) 1476 584340

Genie Australia
Parts Telephone (617) 03375 1660
Parts Fax (617) 03375 1002

Genie France
Parts Telephone (33) (0) 237 26 09 99
Parts Fax (33) (0) 237 31 50 10

Genie Germany
Parts Telephone (49) (0) 4202 885223
Parts Fax (49) (0) 4202 885225

Genie Scandinavia
Parts Telephone (46) (31) 3409612
Parts Fax (46) (31) 3409613

Genie Iberica
Parts Telephone (34) (93) 5795042

Genie Brazil
Parts Telephone (55) (114) 1665755
Parts Fax (55) (114) 1665754

Genie Japan
Parts Telephone (81) (33) 4536082
Parts Fax (81) (33) 4536083

Genie China
Parts Telephone (86) (215) 3852570
Parts Fax (86) (215) 3852569

Service Parts Fax Order Form

Fax to: (425) 556-8659 or Toll Free: 888-274-6192
International: +1-425-556-8659

Please fill out completely

Date _____ Account Number _____

Your Name _____ Your Fax Number _____

_____ Your Phone Number _____

Bill To _____ Ship To _____

_____ _____

_____ _____

_____ _____

Purchase Order Number _____ Ship Via _____

Model(s) _____ **Serial No.(s)** _____

Optional Equipment _____

Part Number	Description	Quantity	Price

All back-ordered parts will be shipped when available via the same ship method as the original order unless Noted below:

- ☐ Ship complete order only - No back orders
- ☐ Ship all available parts and contact customer on disposition of back-ordered parts
- ☐ Other (please specify)

FOR GENIE INDUSTRIES USE ONLY

Order Number _____ Origin Code _____ Comments _____

Date Scheduled _____ Ship Condition _____ _____

Order Total _____ Terms Code _____ _____

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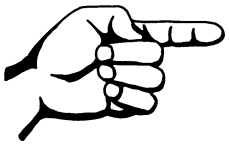

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Specifications

Model	SLC-6	SLC-12	SLC-18	SLC-24
Height-Stowed	86 in 2.2 m	86 in 2.2 m	86 in 2.2 m	86 in 2.2 m
Width	31 1/2 in 80 cm	31 1/2 in 80 cm	31 1/2 in 80 cm	31 1/2 in 80 cm
Width - stabilizers lowered (if equipped)	66 in 1.7 m	66 in 1.7 m	66 in 1.7 m	66 in 1.7 m
Length - Stowed	34 in 86.4 cm	34 in 86.4 cm	34 in 86.4 cm	34 in 86.4 cm
Length - Operating	59 in 1.5 m	63 in 1.6 m	73 in 1.9 m	81 in 2 m
Ground Clearance	2 in 50.8 mm	2 in 50.8 mm	2 in 50.8 mm	2 in 50.8 mm
Load Capacity at 14in/36cm load center Note: see Load Capacity Charts section for load capacities at other load centers.	650 lbs 295 kg	650 lbs 295 kg	650 lbs 295 kg	650 lbs 295 kg
Net Weight	166 lbs 75 kg	204 lbs 93 kg	307 lbs 139 kg	374 lbs 170 kg
Airborne Noise Emissions by Machinery Maximum sound level at normal operating work stations (A-weighted)	85 dB	85 dB	85 dB	85 dB

Load Handling Attachments	Length	Width	Depth	Net Weight
Standard Forks	28 in 71.1 cm	23 in 58.4 cm	2 1/2 in 6.4 cm	26 1/2 lbs 12 kg
Adjustable Forks	27 1/2 in 69.9 cm	11 1/2 to 30 in 29.2 to 76.2 cm	2 1/2 in 6.4 cm	52 1/2 lbs 23.8 kg
Boom	44 in 1.1 m	1 1/2 in 3.8 cm	6 in 15.2 cm	34 1/2 lbs 15.6 kg
Pipe Cradle	27 1/2 in 69.9 cm	24 1/2 in 62.2 cm	6 in 15.2 cm	10 lbs 4.5 kg
Load Platform	27 1/2 in 69.9 cm	23 in 58.4 cm	2 1/2 in 6.4 cm	26 lbs 11.8 kg
Fork Extensions (each)	30 in 76.2 cm	2 in 5.1 cm	3 in 7.6 cm	4 1/2 lbs 2 kg

SPECIFICATIONS

Dimensions - Operating		SLC-6	SLC-12	SLC-18	SLC-24
Standard Forks	forks down	5 ft 8 in 1.7 m	11 ft 2 in 3.4 m	16 ft 9 in 5.1 m	22 ft 3 in 6.8 m
	forks up	7 ft 5 in 2.3 m	12 ft 11 in 3.9 m	18 ft 6 in 5.6 m	24 ft 0 in 7.3 m
Adjustable Forks	forks down	5 ft 8 in 1.7 m	11 ft 2 in 3.4 m	16 ft 9 in 5.1 m	22 ft 3 in 6.8 m
	forks up	7 ft 5 in 2.3 m	12 ft 11 in 3.9 m	18 ft 6 in 5.6 m	24 ft 0 in 7.3 m
Boom		6 ft 8 in 2 m	12 ft 2 in 3.7 m	17 ft 9 in 5.4 m	23 ft 3 in 7.1 m
Note: measured from ground to bottom of shackle					
Load Platform	forks down	5 ft 8 in 1.7 m	11 ft 2 in 3.4 m	16 ft 9 in 5.1 m	19 ft 6 in 6 m	22 ft 3 in 6.8 m
	forks up	7 ft 5 in 2.3 m	12 ft 11 in 3.9 m	18 ft 6 in 5.6 m	21 ft 2 1/2 in 6.5 m	24 ft 0 in 7.3 m
Note: can be used with standard forks and adjustable forks only						
Pipe Cradle: handles round objects up to 30 in (76 cm) in diameter Note: can be used with standard forks and adjustable forks only (see above for working heights)						
Non-marking Fork Option Note: can be used with standard forks and adjustable forks only (see above for working heights)						
Fork Extension Option Note: can be used with standard forks and adjustable forks only (see above for working heights)						

Scheduled Maintenance Procedures

Observe and Obey:

- ☑ Maintenance procedures shall be completed by a person trained and qualified on the maintenance of this machine.
- ☑ Scheduled maintenance procedures shall be completed daily, quarterly (every 3 months) and annually as specified on the maintenance inspection report.

⚠WARNING Failure to properly complete each inspection when required could result in death, serious injury or substantial machine damage.

- ☑ Immediately tag and remove from service a damaged or malfunctioning machine.
- ☑ Repair any machine damage or malfunction before operating machine.
- ☑ Keep records on all inspections for three years.
- ☑ Be sure the capacities of sawhorses or other supports are sufficient to withstand machine weight. See Specification section for the machine weight.
- ☑ Be sure overhead cranes or other lifting devices are of ample capacity to handle machine weight. See Specification section for machine weight.
- ☑ Unless otherwise specified, perform each procedure with the machine in the following configuration:
  - Machine positioned on a flat level surface
  - Carriage fully lowered
  - Casters locked
  - Load handling attachment installed

About This Section

This section contains detailed procedures for each scheduled maintenance inspection.

Each procedure includes a description, safety warnings and step-by-step instructions.

Symbols Legend

Safety alert symbol—used to alert personnel to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠DANGER Red—used to indicate the presence of an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠WARNING Orange—used to indicate the presence of a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠CAUTION Yellow with safety alert symbol—used to indicate the presence of a potentially hazardous situation which, if not avoided, may cause minor or moderate injury.

CAUTION Yellow without safety alert symbol—used to indicate the presence of a potentially hazardous situation which, if not avoided, may result in property damage.

NOTICE Green—used to indicate operation or maintenance information.

⊙ Indicates that a specific result is expected after performing a series of steps.

SCHEDULED MAINTENANCE PROCEDURES

Maintenance Symbols Legend

NOTICE The following symbols have been used in this manual to help communicate the intent of the instructions. When one or more of the symbols appears at the beginning of a maintenance procedure, it conveys the meaning below.

Indicates that tools will be required to perform this procedure.

Indicates that new parts will be required to perform this procedure.

Indicates that a cold motor or pump will be required to perform this procedure.

Indicates that dealer service will be required to perform this procedure.

Pre-delivery Preparation Report

The pre-delivery preparation report contains checklists for each type of scheduled inspection.

Make copies of the *Pre-delivery Preparation* report to use for each inspection. Store completed forms as required.

Maintenance Schedule

There are five types of maintenance inspections that must be performed according to a schedule—daily, quarterly, semi-annually, annually, and two year. The *Scheduled Maintenance Procedures Section and the Maintenance Inspection Report* have been divided into five subsections—A, B, C, D, and E. Use the following chart to determine which group(s) of procedures are required to perform a scheduled inspection.

Inspection	Checklist
Daily or every 8 hours	A
Quarterly or every 250 hours	A + B
Semi-annually or every 500 hours	A + B + C
Annually or every 1000 hours	A + B + C + D
Two year or every 2000 hours	A + B + C + D + E

Maintenance Inspection Report

The maintenance inspection report contains checklists for each type of scheduled inspection.

Make copies of the *Maintenance Inspection Report* to use for each inspection. Store completed forms for three years.

Pre-Delivery Preparation

Fundamentals

It is the responsibility of the dealer to perform the Pre-delivery Preparation.

The Pre-delivery Preparation is performed prior to each delivery. The inspection is designed to discover if anything is apparently wrong with a machine before it is put into service.

A damaged or modified machine must never be used. If damage or any variation from factory delivered condition is discovered, the machine must be tagged and removed from service.

Repairs to the machine may only be made by a qualified service technician, according to the manufacturer's specifications.

Scheduled maintenance inspections shall be performed by qualified service technicians, according to the manufacturer's specifications and the requirements listed in the responsibilities manual.

Instructions

Use the operator's manual on your machine.

The Pre-delivery Preparation consists of completing the Pre-operation Inspection, the Maintenance items and the Function Tests.

Use this form to record the results. Place a check in the appropriate box after each part is completed. Follow the instructions in the operator's manual.

If any inspection receives an N, remove the machine from service, repair and re-inspect it. After repair, place a check in the R box.

Legend

Y = yes, completed
N = no, unable to complete
R = repaired

Comments

Pre-Delivery Preparation	Y	N	R
Pre-operation inspection completed			
Maintenance items completed			
Function tests completed			

Model

Serial number

Date

Machine owner

Inspected by (print)

Inspector signature

Inspector title

Inspector company

Genie Industries USA
18340 NE 76th Street
PO Box 97030
Redmond, WA 98073-9730
(425) 881-1800

Genie UK
The Maltings, Wharf Road
Grantham, Lincolnshire
NG31- 6BH England
(44) 1476-584333

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Maintenance Inspection Report

Model

Serial number

Date

Machine owner

Inspected by (print)

Inspector signature

Inspector title

Inspector company

Instructions

· Make copies of this report to use for each inspection.

· Select the appropriate checklist(s) for the type of inspection to be performed.

	Daily or 8 hours Inspection:	**A**
	Quarterly or 250 hours Inspection:	**A+B**
	Semi-annually or 500 hours Inspection:	**A+B+C**
	Annually or 1000 hours Inspection:	**A+B+C+D**
	Two year or 2000 hours Inspection:	**A+B+C+D+E**

· Place a check in the appropriate box after each inspection procedure is completed.

· Use the step-by-step procedures in this section to learn how to perform these inspections.

· If any inspection receives an “N”, tag and remove the machine from service, repair and re-inspect it. After repair, place a check in the “R” box.

Legend

Y = yes, acceptable

N = no, remove from service

R = repaired

Checklist A - Rev A		**Y**	**N**	**R**
A-1	Operator's manual			
A-2	Decals and placards			
A-3	Damage and loose or missing parts			
A-4	Winch operation			
A-5	Columns			
A-6	Cable and pulleys			
A-7	Mast for proper sequencing			
A-8	Casters and wheels			

Checklist B - Rev A		Y	N	R
B-1	Welds			
B-2	Clean columns			
B-3	Inspect and lubricate winch			
B-4	Carriage hold down bar			

Checklist C - Rev A		**Y**	**N**	**R**
C-1	Mast assembly wear			
C-2	Replace winch friction disks			
C-3	Safety brake system (if equipped)			
C-4	Painted surfaces			

Checklist A Procedures

REV A

A-1
Perform Pre-operation Inspection

Completing a Pre-operation Inspection is essential to safe machine operation. The Pre-operation Inspection is a visual inspection performed by the operator prior to each work shift. The inspection is designed to discover if anything is apparently wrong with a machine before the operator performs the function tests. The Pre-operation Inspection also serves to determine if routine maintenance procedures are required.

Complete information to perform this procedure is available in the appropriate operator's manual. Refer to the Operator's Manual on your machine.

A-2
Perform Function Tests

Completing the function tests is essential to safe machine operation. Function tests are designed to discover any malfunctions before the machine is put into service. A malfunctioning machine must never be used. If malfunctions are discovered, the machine must be tagged and removed from service.

Complete information to perform this procedure is available in the appropriate operator's manual. Refer to the Operator's Manual on your machine.

Checklist B Procedures

REV A

B-1
Inspect All Welds

Weld inspections are essential to safe machine operation and good machine performance. Failure to locate and repair damage may result in an unsafe operating condition.

1 Visually inspect the welds in the following locations:

- Winch mounting plate
- Loading wheels/steer handle
- Base
- Legs and stabilizers
- Load handling attachment(s)

B-2
Clean the Columns

Clean columns are essential to good machine performance and safe operation. Extremely dirty conditions may require that the columns be cleaned more often.

1 Raise all columns to full height.

2 Visually inspect the inner and outer channels of the columns for debris or foreign material. If necessary, use a mild cleaning solvent to clean the columns.

⚠WARNING Bodily injury hazard. This procedure will require the use of additional access equipment. Do not place ladders or scaffold on or against any part of the machine. Performing this procedure without the proper skills and tools could result in death or serious injury. Dealer service is strongly recommended.

CHECKLIST B PROCEDURES REV A

B-3
Inspect and Lubricate the Winch

Maintaining the winch is essential to good machine performance and safe operation. An unsafe working condition exists if the winch has excessive wear and/or does not operate smoothly, free of hesitation and binding.

1 Carefully lubricate the following areas with automotive grease:

- Cable drum gear
- Teeth on the pinion gear that mesh with the cable drum gear
- Threads on the pinion shaft, under the pinion gear
- **Models with two speed winch:** The teeth on the slow and the fast speed gears where they mesh together

NOTICE Do not apply grease to brake friction disks or rachet gear.

2 Carefully lubricate both pivot points on each ratchet pawl with 30W oil.

3 Measure each friction disk for wear. Replace the friction disk if it measures less than specification.

Friction disk specification	
Friction disk	1/16 inch 1.5 mm

4 Measure both shaft bushings for wear. Replace the bushings if the wall thickness measurements are less than specification.

Pinion shaft bushing specification	
Pinion shaft bushing	1/8 inch 3.1 mm

5 Lubricate the surface of the frame drum spacer with a thin layer of lithium grease. Tighten the drum bolt to 20 ft-lbs / 27 Nm. Do not overtighten.

B-4
Inspect the Carriage Hold-down Bar

Detection of damage to the column hold down system is essential for safe machine operation. An unsafe working condition exists if the system is damaged and does not operate properly.

1 Using proper lifting techniques, lay the machine back against a sawhorse or other suitable support.

2 Visually inspect the carriage hold-down bar for damage

3 Check the carriage hold-down bar for smooth operation.

Checklist C Procedures

REV A

C-1
Lubricate the Casters and Wheels

Extremely dirty conditions may require that the casters and wheels be inspected and lubricated more often.

1 Visually inspect each caster and wheel for cuts, cracks or unusual wear.

2 Move the machine on a flat smooth surface and check that the casters and wheels roll smoothly, free of hesitation and binding.

3 Pump grease into the caster or wheel until it can been seen coming out of the bearing gap.

Grease Type	Lithium-based

C-2
Inspect the Mast Assembly for Wear

Detection of excessive or unusual wear in the mast assembly is essential for safe machine operation. An unsafe working condition exists if the mast assembly has excessive wear and/or does not operate smoothly, free of hesitation and binding.

1 Attach a lifting strap from an overhead crane or similar lifting device to the lifting point on the top of the mast. Rotate the carriage hold-down bar over the carriage and operate the winch to apply tension to the lifting cable.

2 Lift the machine slightly with the overhead crane and guide it onto a suitable structure capable of supporting it.

⚠WARNING Crushing hazard. The machine will fall if not properly supported by the overhead crane.

3 Lower the top of the mast onto the suitable structure.

4 Attach a lifting strap from an overhead crane to the base of the machine.

5 Lift the base with the overhead crane, until the mast is level and place another suitable structure under the mast.

6 Lower the base end of the machine.

7 Rotate the mast assembly until the carriage is on top.

8 Visually inspect the top of each column for clearance between the roller wheel and the adjacent column surface.

⊙ Result: There should be a gap of less than 0.062 inch / 1.57 mm between the roller wheel and the column.

NOTICE If the mast inspection results in a measurement that is not within specification, replace the roller wheels. See Repair procedure 2-1, *How to Disassemble the Mast Assembly.*

9 Visually inspect the bottom of each column for clearance between the roller wheel and the adjacent column surface.

⊙ Result: There should be a gap of less than 0.062 inch / 1.57 mm between the roller wheel and the column.

NOTICE If the mast inspection results in a measurement that is not within specification, replace the roller wheels. See Repair procedure 2-1, *How to Disassemble the Mast Assembly.*

3 Grasp the bottom of the carriage and lift it approximately 12 inches / 30.5 cm, then release the carriage.

⊙ Result: The carriage should stop within 5 to 8 inches / 12.7 to 20.3 cm and the safety brake should engage.

⚠CAUTION Crushing hazard. Do not stand directly under the carriage or load handling attachment.

C-3
Replace the Winch Friction Disks

Maintaining the winch is essential to good machine performance and safe operation. An unsafe working condition exists if the winch has excessive wear and/or does not operate smoothly, free of hesitation and binding.

1 Replace the winch friction disks. See Repair procedure 3-1 *How to Disassemble a One Speed Winch,* or 3-2, *How to Disassemble a Two Speed Winch.*

CHECKLIST C PROCEDURES REV A

C-4
Inspect the Safety Brake System (if equipped)

Detection of damage or a faulty safety brake system is essential for safe machine operation. An unsafe working condition exists if the system is damaged or faulty and does not allow the mast to sequence properly, free of hesitation and binding.

⚠WARNING Bodily injury hazard. This procedure requires specific repair skills and a suitable workshop. Attempting this procedure without these skills could result in death or serious injury or significant component damage. Dealer service is strongly recommended.

⚠CAUTION Bodily injury hazard. Wear protective gloves when performing this procedure.

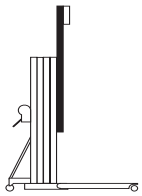
1 Fasten a load handling attachment to the carriage (use the forks or the boom if possible). Do not place any weight on the load handling attachment.

2 Raise the carriage until it is half way up the front column

3 Grasp the bottom of the carriage and lift it approximately 12 inches / 30.5 cm, then release the carriage.

⊙ Result: The carriage should stop within 5 to 8 inches / 12.7 to 20.3 cm and the safety brake should engage.

⚠CAUTION Crushing hazard. Do not stand directly under the carriage or load handling attachment.



4 Raise the carriage approximately 12 inches / 30 cm to disengage the safety brake.

5 Operate the winch until the front column is half way up the adjacent column.

6 Grasp the bottom of the front column and lift it approximately 5 inches / 12 cm, then release the column.

⊙ Result: The carriage should stop within 5 to 8 inches / 12 to 20 cm and the safety brake should engage.

⚠CAUTION Crushing hazard. Do not stand directly under the columns or load handling attachment.

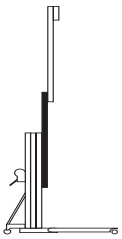
7 Raise the front column approximately 12 inches / 30 cm to disengage the safety brake.

8 Operate the winch until the front column is fully raised and the second column is half way up the adjacent column.

9 Grasp the bottom side of the next column and lift it approximately 12 inches / 30 cm, then release the column.

⊙ Result: The carriage should stop within 5 to 8 inches / 12 to 20 cm and the safety brake should engage.

⚠CAUTION Crushing hazard. Do not stand directly under the columns or load handling attachment.



10 Repeat steps 7 through 9 to test all remaining columns.

NOTICE When disengaging the safety brake, it may be necessary to hold down the column behind the column to be disengaged.

NOTICE The number one column (column attached to the base) does not have a safety brake and will not need to be tested.

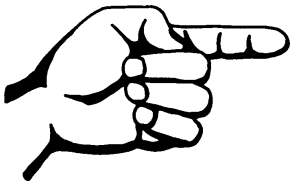
C-5
Inspect the Painted Surfaces

Inspecting the painted surfaces of your machine is essential to safe operation. An unsafe working condition exists if there is damage to painted surfaces that is not corrected.

1 Visually inspect all painted surfaces for the following conditions:

- Blistering
- Rust
- Peeling
- Fading
- Corrosion

NOTICE Replace any component that is damaged.



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Troubleshooting Flow Charts

Observe and Obey:

- ☑ Troubleshooting and repair procedures shall be completed by a person trained and qualified on the repair of this machine.
- ☑ Immediately tag and remove from service a damaged or malfunctioning machine.
- ☑ Repair any machine damage or malfunction before operating the machine.
- ☑ Be sure the capacities of sawhorses or other supports are sufficient to withstand machine weight. See Specifications section for specific weight.
- ☑ Be sure overhead cranes or other lifting devices are of ample capacity to handle machine weight. See Specification section for specific weight.

Before Troubleshooting:

- ☑ Read, understand and obey the safety rules and operating instructions printed in the *Genie Superlift Contractor Operator's Manual*.
- ☑ Be sure that all necessary tools and test equipment are available and ready for use.
- ☑ Read each appropriate flow chart thoroughly. Attempting shortcuts may produce hazardous conditions.
- ☑ Be aware of the following hazards and follow generally accepted safe workshop practices.

⚠DANGER Crushing hazard. When testing or replacing the primary component, always support the structure and secure it from movement.

NOTICE Perform all troubleshooting on a firm level surface.

NOTICE Two people will be required to safely perform some troubleshooting procedures.

About This Section

When a malfunction is discovered, the flow charts in this section will help a service professional pinpoint the cause of the problem. To use this section, basic hand tools are required.

General Repair Process

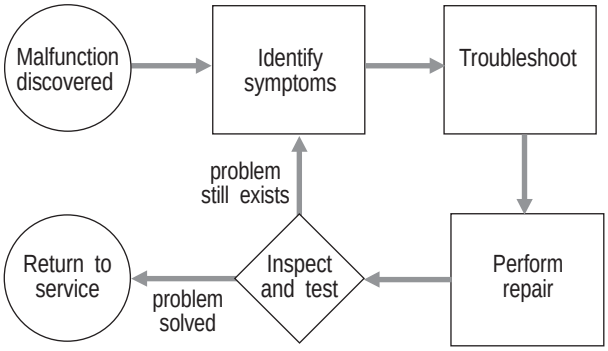


Chart 1

REV A

Mast Will Not Sequence Properly

Be sure safety brake (if equipped) is not engaged by fully raising and lowering all columns.

Improper sequencing of the mast columns may occur when the machine is at or near maximum capacity. If improper sequencing occurs, the columns may shift to their correct position during operation or when the load is removed. The forks will not change position if the columns shift position. The carriage should always raise first, and lower last.

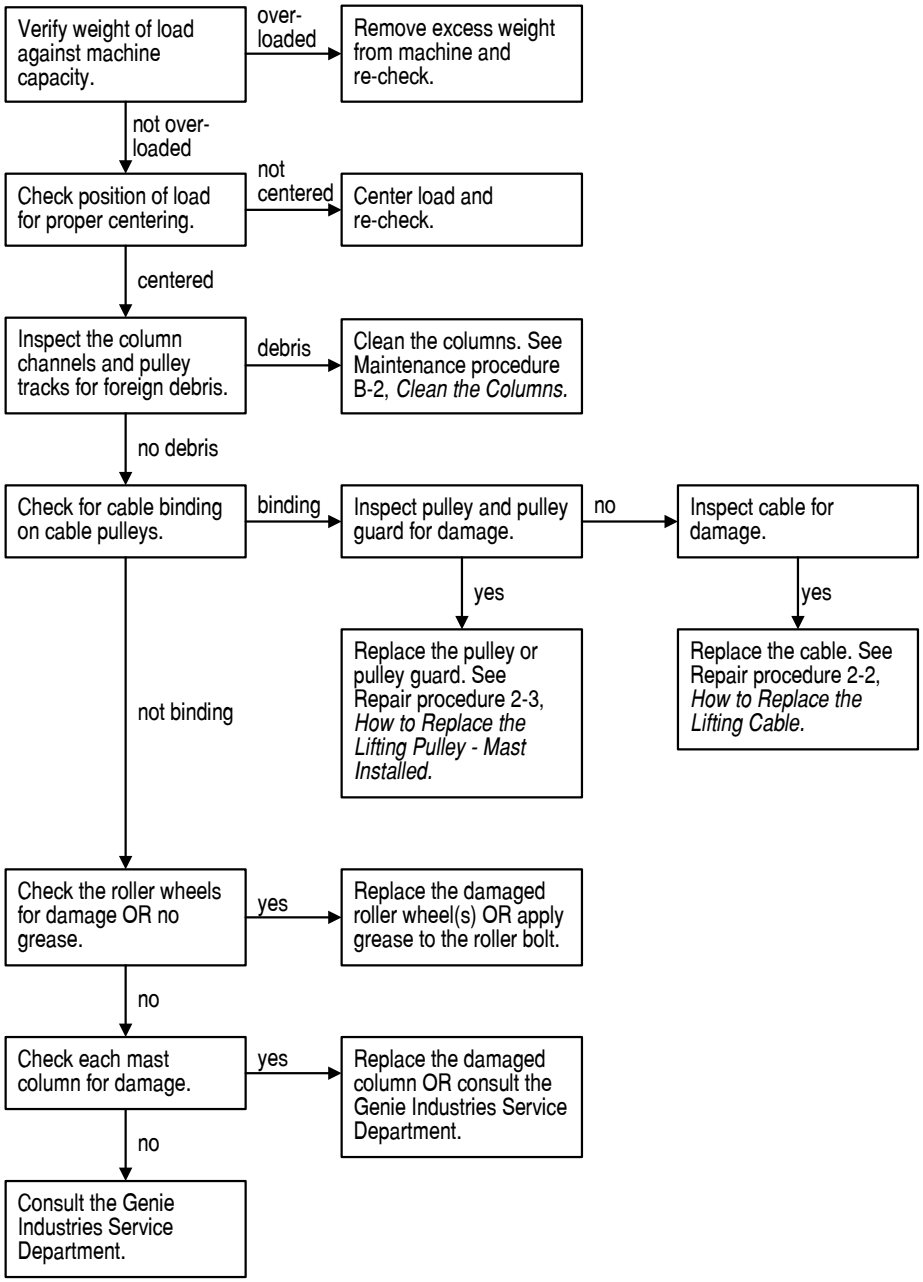

Verify weight of load against machine capacity.
over-loaded
Remove excess weight from machine and re-check.
not over-loaded
Check position of load for proper centering.
not centered
Center load and re-check.
centered
Inspect the column channels and pulley tracks for foreign debris.
debris
Clean the columns. See Maintenance procedure B-2, Clean the Columns.
no debris
Check for cable binding on cable pulleys.
binding
Inspect pulley and pulley guard for damage.
no
Inspect cable for damage.
yes
Replace the pulley or pulley guard. See Repair procedure 2-3, How to Replace the Lifting Pulley - Mast Installed.
yes
Replace the cable. See Repair procedure 2-2, How to Replace the Lifting Cable.
not binding
Check the roller wheels for damage OR no grease.
yes
Replace the damaged roller wheel(s) OR apply grease to the roller bolt.
no
Check each mast column for damage.
yes
Replace the damaged column OR consult the Genie Industries Service Department.
no
Consult the Genie Industries Service Department.

Chart 2

REV A

Carriage Will Not Raise, But Winch Will Operate

Be sure the carriage hold-down bar is not engaged.

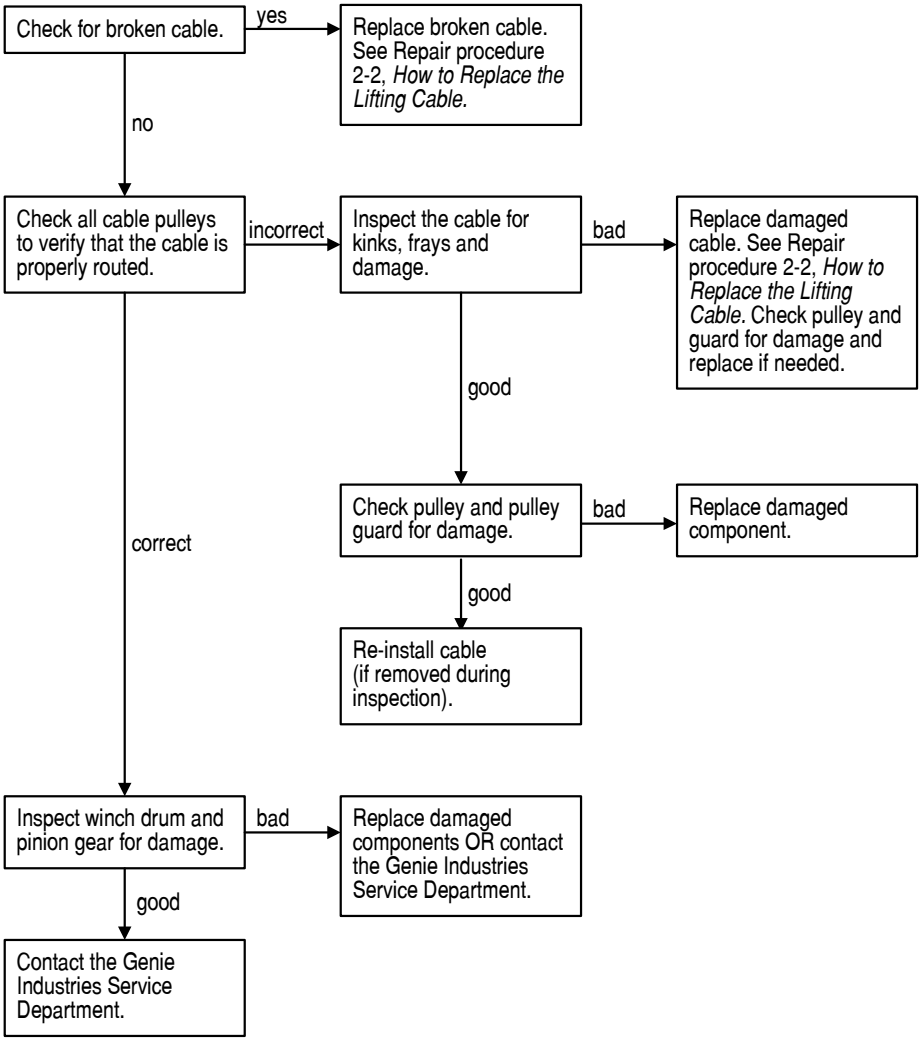
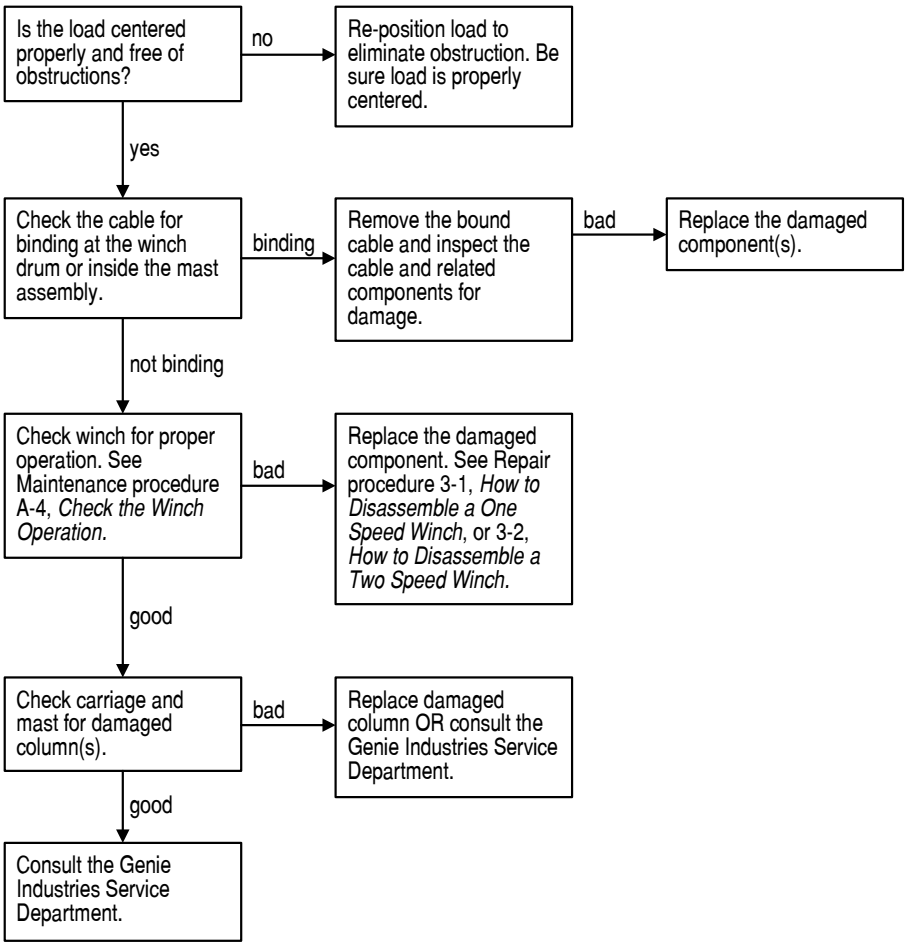

Check for broken cable.
yes
Replace broken cable. See Repair procedure 2-2, How to Replace the Lifting Cable.
no
Check all cable pulleys to verify that the cable is properly routed.
incorrect
Inspect the cable for kinks, frays and damage.
bad
Replace damaged cable. See Repair procedure 2-2, How to Replace the Lifting Cable. Check pulley and guard for damage and replace if needed.
good
Check pulley and pulley guard for damage.
bad
Replace damaged component.
good
Re-install cable (if removed during inspection).
correct
Inspect winch drum and pinion gear for damage.
bad
Replace damaged components OR contact the Genie Industries Service Department.
good
Contact the Genie Industries Service Department.

Chart 3

REV A

Winch Will Not Operate


Is the load centered properly and free of obstructions?
no
Re-position load to eliminate obstruction. Be sure load is properly centered.
yes
Check the cable for binding at the winch drum or inside the mast assembly.
binding
Remove the bound cable and inspect the cable and related components for damage.
bad
Replace the damaged component(s).
not binding
Check winch for proper operation. See Maintenance procedure A-4, Check the Winch Operation.
bad
Replace the damaged component. See Repair procedure 3-1, How to Disassemble a One Speed Winch, or 3-2, How to Disassemble a Two Speed Winch.
good
Check carriage and mast for damaged column(s).
bad
Replace damaged column OR consult the Genie Industries Service Department.
good
Consult the Genie Industries Service Department.

Repair Procedures

Observe and Obey:

- ☑ Repair procedures shall be completed by a person trained and qualified on the repair of this machine.
- ☑ Immediately tag and remove from service a damaged or malfunctioning machine.
- ☑ Repair any machine damage or malfunction before operating the machine.

Before Repairs Start:

- ☑ Read, understand and obey the safety rules and operating instructions in the *Genie Superlift Contractor Operator's Manual*.
- ☑ Be sure that all necessary tools and parts are available and ready for use.
- ☑ Be sure the capacities of sawhorses or other supports are sufficient to withstand machine weight. See Specifications section for the machine weight.
- ☑ Be sure overhead cranes or other lifting devices are of ample capacity to handle machine weight. See Specifications section for specific weight.
- ☑ Read each procedure completely and adhere to the instructions. Attempting shortcuts may produce hazardous conditions.
- ☑ Unless otherwise specified, perform each procedure with the machine in the following configuration:
  - · Machine positioned on a firm, level surface
  - · Carriage fully lowered
  - · Casters locked

About This Section

Most of the procedures in this section should only be performed by a trained service professional in a suitably equipped workshop. Select the appropriate repair procedure after troubleshooting the problem.

Perform disassembly procedures to the point where repairs can be completed. To re-assemble, perform the disassembly steps in reverse order.

Symbols Legend

Safety alert symbol—used to alert personnel to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠DANGER Red—used to indicate the presence of an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠WARNING Orange—used to indicate the presence of a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠CAUTION Yellow with safety alert symbol—used to indicate the presence of a potentially hazardous situation which, if not avoided, may cause minor or moderate injury.

CAUTION Yellow without safety alert symbol—used to indicate the presence of a potentially hazardous situation which, if not avoided, may result in property damage.

NOTICE Green—used to indicate operation or maintenance information.

⊙ Indicates that a specific result is expected after performing a series of steps.

Base Assembly

REV A

1-1
Base

How to Remove the Base

1 Fully lower the carriage.

2 Remove the load handling attachment from the machine.

Models with stabilizers:

3 Remove the mounting fasteners from the stabilizer mounting bracket on the back of the mast.

4 Remove the mounting fastener from each stabilizer at the base. Remove each stabilizer from the machine.

All Models:

5 Using proper lifting techniques, tilt the machine back and rest the loading wheels against a suitable structure cable of supporting it.

⚠CAUTION Bodily injury hazard. Use proper lifting techniques when rolling the mast assembly over.

6 Remove the mounting fastener and retaining pin from each leg. Remove the legs from the machine.

7 Using proper lifting techniques, carefuly tilt the machine to the upright position.

⚠CAUTION Bodily injury hazard. Use proper lifting techniques when tilting the machine to the upright position.

8 Attach a lifting strap from an overhead crane to the lifting eye at the top of the number one mast column.

9 Position a suitable structure capable of supporting the machine on the carriage side of the mast.

10 Carefully lift the machine slightly with the overhead crane. While lowering it, guide the machine over onto a suitable structure capable of supporting it.

⚠CAUTION Crushing hazard. The machine may become unbalanced and fall if not properly supported by the overhead crane.

Mast Assembly

REV A

11 Secure the top of the mast to the support.

12 Attach a lifting strap from an overhead crane to the base and lift the machine to a horizontal position. Slide a second suitable structure capable of supporting it under the mast, next to the base.

⚠WARNING Crushing hazard. The machine could become unbalanced and fall if not properly supported by the overhead crane when the mast is lifted.

13 Remove the mounting fasteners from both mast braces at the base.

14 Remove the base mounting fasteners. Remove the base from the machine.

NOTICE When installing the base, be sure that the mast and the base are square.

2-1 Mast Assembly

How to Disassemble the Mast Assembly

NOTICE Removal of the base is only necessary when the number one column is to be removed. See 1-1, *How to Remove the Base.*

1 Fully lower the carriage and remove the load handling attachment.

2 Remove the cable retaining fasteners from the winch drum. Remove all of the cable from the drum.

3 Lift the machine slightly with an overhead crane. While tilting backwards with the carriage facing up, guide the machine over onto a suitable structure.

⚠CAUTION Bodily injury hazard. Use proper lifting techniques when lifting the mast assembly.

⚠CAUTION Crushing hazard. The machine may become unbalanced and fall if not properly supported when the mast is lifted

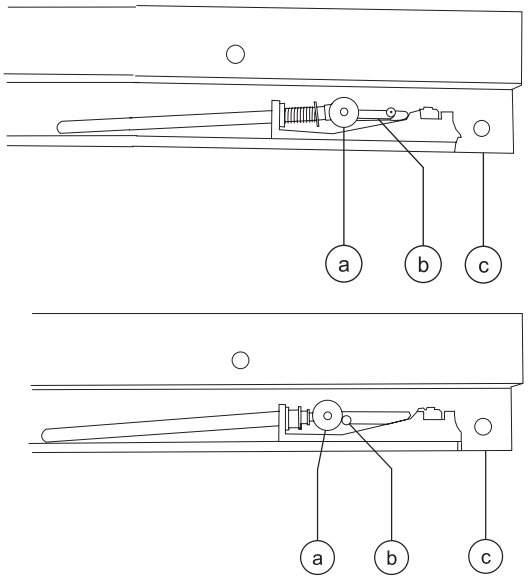
4 Remove the mounting fastener from the cable anchor at the top of the last column (carriage side).

5 Remove the cable from the mast by pulling on the cable anchor end of the cable.

⚠CAUTION Bodily injury hazard. Cables can fray. Always wear adequate hand protection when handling cable.

6 Slide the carriage up approximately 12 inches / 30 cm to expose the column stop mounting fastener, attached to the bottom end of the top column. Remove the fasteners and the column stop.

7 **Models with safety brake:** Insert a hex key wrench through the access holes in the carriage to release the safety brake. Position the hex key above the safety brake rollers. Slide the carriage away from the base while pulling back on the wrench.



a Brake roller
b Brake release tool
c Column or carriage

8 **Models with safety brake:** Remove the carriage by sliding it out the bottom of the mast toward the base while holding the safety brake rollers in the released position with the hex key wrench.

Models without safety brake: Remove the carriage by sliding it out the bottom of the mast toward the base.

9 Slide the column up approximately 12 inches / 30 cm to expose the column stop mounting fasteners attached to the bottom end of the top column. Remove the fasteners and the column stops.

10 **Models with safety brake:** Insert a hex key wrench through the access holes in the column up to release the safety brake. Position the hex key above the safety brake rollers. Slide the carriage away from the base while pulling back on the wrench.

11 **Models with safety brake:** Remove the column by sliding it out the bottom of the mast toward the base while holding the safety brake rollers in the released position with the hex key wrench.

Models without safety brake: Remove the column by sliding it out the bottom of the mast toward the base.

12 Repeat steps 10 through 12 for each remaining column.

How to Release the Safety Brake When Servicing the Mast

The safety brake system can engage when the machine is tilted horizontally if the hold-down bar is not used. When the brake is engaged, the columns can extend but not retract. If the safety brake system engages while you are servicing the mast, use one of the following methods described below to release the brake.

Method A: This method allows you to release each column in sequence, starting at the carriage and removing columns one at a time. See 2-1, *How to Disassemble the Mast Assembly.*

Method B: This method allows you to release any column in the assembly regardless of it's position, but requires a custom tool. The tool is a piece of 1/8 to 5/16 inch diameter stiff wire bent in an L shape with one end 1 inch long and the other end 16 inches long. The installation of a handle on the long end will make it easier to use. This tool is available from The Genie Industries Service Parts Department (Genie part number 33875).

Insert the tool from the bottom of the column into the safety brake access slot in the inner side wall of the column. Reach through the far upper end of the slot and position the short end of the tool above the safety brake rollers. Slide the carriage away from the base while pulling back on the tool.

How to Assemble the Mast

1 Inspect all mast parts for wear and damage. Replace as necessary.

2 Clean all columns and rollers.

3 Clean all safety brake assemblies (if equipped).

4 Position the number one column so that it is open-side up and level. If it is not attached to the base, secure the column to the supports.

5 Install all column assembly components (removed during disassembly) except the column down stops. Apply a small amount of multi-purpose grease between the roller bolt head and the inside of the roller wheel.

6 Slide the number two column into the number one from the bottom. Stop inserting the column when the top of the up stop or the safety brake assembly is even with the bottom edge of the number one column.

7 Repeat steps 4 through 6 with all remaining columns. Do not install the carriage.

NOTICE The cable is installed after all columns are together as an assembly.

8 Attach the swaged end of the cable to the cable anchor on the top of the front column.

9 Feed the other end of the cable through the box section (web) of the carriage into the pulley, then push the cable through the pulley until it comes out the back side of the carriage.

⚠CAUTION Bodily injury hazard. Cables can fray. Always wear adequate hand protection when handling cable.

NOTICE Refer to Figure 8-D in the Parts Section to identify the cable routing.

10 Insert the carriage into the bottom end of the top column. Hold the carriage in place and pull the cable up to the top of the column, leaving enough slack to feed the cable through the next pulley.

11 Push the cable through the exposed portion of the pulley at the top of the column until the cable reaches the pulley at the bottom of the column.

12 Remove the lower pulley assembly from the upper column.

13 Route the cable into and around the lower pulley.

14 Apply Loctite® removeable thread sealant to the pulley mounting fastener and install the lower pulley into the column.

15 Push the cable between the two mast sections until it comes out the top of the column.

16 Repeat steps 11 through 15 with all remaining columns.

17 Slide all the columns forward, until you can install the column stops. Do not slide the columns forward any farther than necessary.

18 Install all the components removed during disassembly.

NOTICE Be sure that all fasteners have Loctite® removeable thread sealant applied to the threads and that all fasteners have been securely tightened.

19 Attach the cable to the winch and be sure the cable is routed correctly.

20 Raise the machine to full height to release the safety brakes (if equipped) and verify proper operation.

2-2
Lifting Cable

How to Replace the Lifting Cable

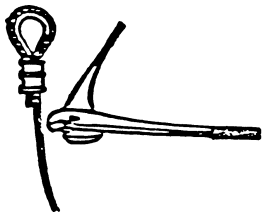
⚠CAUTION Bodily injury hazard. Cables can fray. Always wear adequate hand protection when handling cable.

NOTICE All Genie replacement cables come with one pre-swaged end that terminates at the top of the last column and one taped end that terminates at the winch.

NOTICE For additional information, refer to instructional video, *Genie Superlift Cabling Procedure.* This video is available from The Genie Industries Service Parts Department (Genie part number 52701).

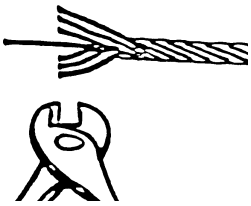
1 Fully lower the carriage.

2 Remove the retaining fasteners from the eyelet end of the cable at the mast anchor plate and cut the eyelet off below the copper sleeve.

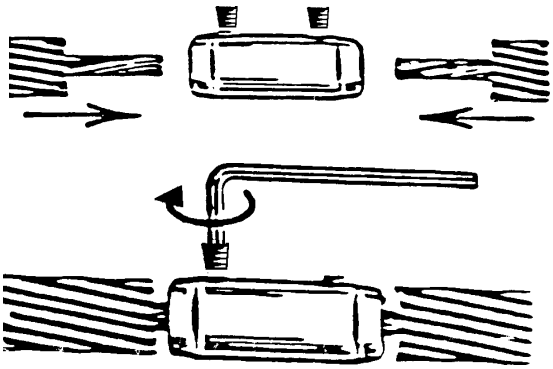


3 Remove the old cable from the winch drum.

4 Unwind the outer strands and trim them back 1/2 inch / 12.7 mm leaving the core longer. Repeat this process on the open end of the new cable.



5 Using the cable threading tool supplied with your cable, insert even amounts of cable into each end of the tool. Tighten the set screws.



6 Place a smooth layer of strapping tape over the joint section of the two cables and the tool.

NOTICE If the cable gets caught as you are pulling it through the columns and pulleys, avoid pulling too hard as you may break the connection between the two cables. Try pulling the cable back and forth until the cable pulls freely.

7 Wind the old cable onto the winch drum while feeding the new cable through machine.

8 When the taped area appears at the winch, loosen the set screws and remove the old cable from the winch drum.

9 Attach the new cable to both the mast anchor and the winch drum.

10 Wind the new cable evenly onto the winch drum. Be sure there are at least four wraps of cable on the winch drum.

11 Fully raise and lower the carriage without a load to check for proper operation. The carriage should raise and lower smoothly.

12 Fully raise and lower the carriage again with a load and check for proper operation. The carriage should raise and lower smoothly.

⚠CAUTION Do not use as a load carrying cable splice. This tool is intended for cable replacement only.

2-3 Lifting Pulley

How to Replace a Lifting Pulley-Mast Installed

1 Fully lower the carriage.

2 Unwind approximately 1 to 2 feet / 30 to 61 cm of cable from the winch drum.

3 Tip the machine backwards and rest the top of the number one mast on a suitable structure capable of supporting it. Secure the top of the mast to the structure.

4 Attach an overhead crane to the base. Lift the machine to a horizontal position and slide a second structure under the mast next to the base.

5 If replacing an upper pulley, slide the column that is above the pulley to be replaced forward. If replacing a lower pulley, slide the column with the pulley to be replaced forward. Push the column forward approximately 6 inches / 15 cm to expose the lower column stop.

6 Remove the column stop mounting fasteners.

7 Slide the column backwards until the pulley that is to be replaced is exposed.

8 Remove the two mounting fasteners from the pulley mounting block. Remove the pulley assembly.

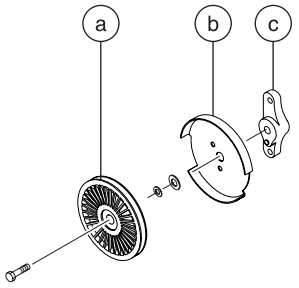
9 Remove the retaining fastener that attaches the pulley to the mounting block.

NOTICE Note the quantity and location of the shims and spacers before disassembling.

10 Remove the old pulley.

11 Install the cable onto the new pulley.

12 Apply Loctite® removeable thread sealant to the pulley mounting fastener and install the fastener through the pulley and pulley guard into the pulley mounting block.



a Pulley
b Pulley guard
c Pulley mounting block

⚠WARNING Crushing hazard. Failure to properly route the cable could result in a winch brake failure.

CAUTION Component damage hazard. Do not allow the cable to become twisted during installation or mast sequencing problems may occur.

NOTICE Be sure the cable guard is located over the retaining pin on the pulley mounting block. Be sure the pulley spins freely after reassembling the pulley assembly.

13 Apply Loctite® removeable thread sealant to the fastener and install the pulley assembly onto the column.

Winches

REV A

3-1
One Speed Winch

How to Disassemble a One Speed Winch

⚠CAUTION Bodily injury hazard. Cables can fray. Always wear adequate hand protection when handling cable.

1 Fully lower the carriage.

2 Remove the cable retaining fastener from the winch drum. Remove the cable from the winch drum.

3 Remove both handle retaining fasteners. Remove the handles from the pinion shaft.

4 Remove the drum bolt and the drum bolt spacer. Remove the drum, drum gear cover and housing spacer from the winch.

5 Remove the two lock nuts from the pinion shaft by holding the opposite end of the shaft at the flattened portion of the threads.

CAUTION Component damage hazard. Be careful not to damage the threads while holding the pinion shaft.

6 Remove the retaining ring from the pinion shaft.

7 Slide the pinion shaft to the right and remove the pinion spacer, pinion plate, ratchet gear and friction disks. Turn the pinion gear counterclockwise and slide it off the left side of the shaft.

8 Remove the pinion shaft from the winch housing.

9 Remove both pinion bushings. Use a soft metal drift equal to the outside diameter of the bushing and tap with a rubber mallet.

CAUTION Component damage hazard. Place a block in between the walls of the winch housing to prevent the housing from bending while removing the bushings.

10 Remove the winch housing from the machine.

How to Assemble a One Speed Winch

⚠CAUTION Bodily injury hazard. Cables can fray. Always wear adequate hand protection when handling cable.

NOTICE Refer to Figure 8-E, *Single Speed Winch Components,* for an exploded view of the winch.

1 Place one side of the winch housing over the jaws of a vise. Open the vise until the jaws are wider than the outside diameter of the bushing.

2 Insert a soft metal drift through the opposite bushing hole. Tap the drift with a rubber mallet to push the bushing into place.

3 Repeat steps 1 and 2 to insert the other bushing.

NOTICE Use a piece of flatbar or wood in between the drift and the bushing to prevent any damage to the bushing.

4 Add two drops of 30W oil to both pivot points on each ratchet pawl.

CAUTION Bodily Injury Hazard. Overlubrication of the ratchet pawl may result in oil coming in contact with the surface of the winch brake leading to an unsafe working condition. Do not allow any oil on the brake or pressure plate.

5 Install the winch housing onto the mast. Be sure the winch drum is toward the top.

6 Insert the longer threaded end of the pinion shaft approximately halfway through the left bushing.

7 Apply a small amount of multi-purpose grease to the large threaded section of the pinion shaft, under the gear nut. Screw the pinion gear onto the pinion shaft with the gears toward the left side of the winch housing.

8 Install, in order, a brake disk, a ratchet gear, a brake disk, a pinion plate and a pinion spacer onto the pinion shaft.

CAUTION Component damage hazard. Do not allow grease or oil onto the brake disks or the ratchet gear.

NOTICE The teeth on the ratchet gear must curve away from the right side of the winch housing.

9 Push the pinion shaft to the right, through the right pinion bushing, and install the pinion shaft retaining ring.

NOTICE Use your fingers to push the ratchet pawls outward while pushing the pinion shaft through the right bushing. Be sure the ratchet pawls are in firm contact with the ratchet gear and that all parts move freely.

10 Install the two jam nuts to the right side of the pinion shaft one at a time, and tighten.

11 Position both handles on the pinion shaft in opposite directions. Install and tighten the lock nuts.

12 Lubricate the outside of the frame spacer with

multi-purpose grease. Insert the frame spacer into the drum.

13 Install the cable drum. Be sure the drum gears mesh with the ratchet gears.

14 Install the drum bolt keeper. Push the drum bolt through the winch housing, drum cover and drum. Be sure the head of the drum bolt is on the drum gear side of the winch.

15 Place the drum gear cover in position with the drum bolt slot under the drum bolt keeper.

16 Install the drum bolt jam nut hand tight.

17 Install the housing spacer with the head of the housing spacer bolt on the right side of the winch and through the slotted portion of the drum gear cover. Place the nut on the end of the bolt and tighten.

18 Torque the drum bolt nut to 20 to 25 ft-lbs / 27 to 34 Nm.

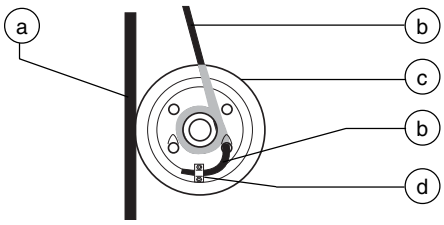
CAUTION Component damage hazard. Overtightening the drum bolt jam nut may cause damage to the frame spacer and prevent the drum from spinning freely.

19 Lubricate the teeth of the drum gear and the pinion nut that meshes with the drum gear with multi-purpose grease.

CAUTION Bodily Injury Hazard. Overlubrication of the ratchet pawl may result in oil coming in contact with the surface of the winch brake leading to an unsafe working condition. Do not allow any oil on the brake or pressure plate.

20 Rotate the drum so that the two square cable keeper holes are at the top. Install the cable keeper clip to the outside of the drum with the two carriage bolts coming through from the inside. Install the lock washers and nuts finger tight. Do not tighten.

21 Route the end of the cable around the winch drum and out through the remaining hole on the left side wall of the drum.



a number one column
b cable
c winch drum
d cable keeper clip

22 Insert the end of the cable under the cable keeper clip approximately 1/2 inch / 13 mm and tighten the cable keeper clip fasteners.

23 While holding the cable tight on the drum, rotate the drum and spool the cable onto the drum evenly.

CAUTION Component damage hazard. Be sure the cable winds onto the winch drum evenly.

3-2
Two Speed Winch

How to Disassemble a Two Speed Winch

⚠CAUTION Bodily injury hazard. Cables can fray. Always wear adequate hand protection when handling cable.

1 Fully lower the carriage and remove the load handling attachment.

2 Remove the cable retaining fasteners from the winch drum. Remove the cable from the drum.

3 Remove both handle retaining fasteners from the pinion shaft. Remove the handles.

4 Remove the drum bolt and spacer. Remove the drum, drum gear cover and housing spacer.

5 Remove the input shaft cover.

6 Remove the mounting fasteners from the spring and ball housing.

7 Remove the two springs and balls from the spring and ball housing.

8 Slide the input shaft out of the winch housing.

9 Remove the retaining ring from the pinion shaft.

10 Remove the lock nut from the end of the pinion shaft (located on the outside of the winch housing).

NOTICE Note the location and position of the components on the pinion shaft.

11 Slide the pinion shaft to the right and remove the pinion spacer, pinion plate, ratchet gear, and friction disks. Turn the pinion gear counterclockwise and slide it off the left side of the shaft.

12 Remove both pinion bushings. Use a soft metal drift equal to the outside diameter of the bushing and tap with a rubber mallet.

CAUTION Component damage hazard. Place a block between the walls of the winch housing to prevent the housing from bending while removing the bushings.

How to Assemble a Two Speed Winch

⚠CAUTION Bodily injury hazard. Cables can fray. Always wear adequate hand protection when handling cable.

NOTICE See Figure 8-F, *Two Speed Winch,* for an exploded view of the winch.

1 Place one side of the winch housing over the jaws of a vise. Open the vise until the jaws are wider than the outside diameter of the bushing.

2 Insert a soft metal drift through the opposite bushing hole. Line up the tab on the bushing to the hole in the winch housing. Tap the drift with a rubber mallet to push the bushing into place.

3 Repeat steps 1 and 2 to insert the other bushing.

NOTICE Use a piece of flatbar or wood between the drift and the bushing to prevent any damage to the bushing.

4 Add two drops of 30W oil to both pivot points on each ratchet pawl.

CAUTION Bodily Injury Hazard. Overlubrication of the ratchet pawl may result in oil coming in contact with the surface of the winch brake leading to an unsafe working condition. Do not allow any oil on the brake or pressure plate.

5 Install the winch housing on the mast. Be sure the winch drum is toward the top.

6 Insert the longer threaded end of the pinion shaft approximately halfway through the right side bushing.

7 Apply a small amount of multi-purpose grease to the large threaded section of the pinion shaft, under the gear nut. Slide the pinion shaft gears onto the pinion shaft. Install the pinion gear onto the pinion shaft with the gears toward the right side of the winch housing. Screw onto large threads hand tight.

8 Install, in order, a friction disk, a ratchet gear, a friction disk, a pinion plate and a pinion spacer onto the pinion shaft.

CAUTION Component damage hazard. Do not allow grease or oil onto the brake disk, ratchet gear or the teflon spacer.

NOTICE The teeth on the ratchet gear must curve toward the left side of the winch housing.

9 Install the pinion shaft retaining ring onto the pinion shaft.

NOTICE Use your fingers to push the ratchet pawls outwards while pushing the pinion shaft through the left bushing. Be sure the ratchet pawls are in firm contact with the ratchet gear and that all parts move freely.

10 Install the lock nut on the left side of the pinion shaft.

11 Install the input shaft approximately half way through the left side of the winch housing.

12 Slide the left side bushing, spring and ball housing, spacer, input shaft gears and right side bushing onto the input shaft.

13 Install the ball and spring into the spring and ball housing. Install the mounting fasteners.

14 Lubricate the outside of the frame spacer with multi-purpose grease and insert it into the drum.

15 Install the cable drum. Be sure the drum gears mesh with the ratchet gears.

16 Install the drum bolt keeper. Push the drum bolt through the winch housing, drum cover and drum. Be sure the head of the drum bolt is on the drum gear side of the winch.

17 Install the drum bolt jam nut and torque to 20 to 25 ft-lbs / 27 to 34 Nm.

CAUTION Component damage hazard. Overtightening the drum bolt jam nut may cause damage to the frame spacer and prevent the drum from spinning freely.

18 Lubricate the teeth of the drum gear and the pinion nut with multi-purpose grease.

CAUTION Bodily Injury Hazard. Overlubrication of the ratchet pawl may result in oil coming in contact with the surface of the winch brake leading to an unsafe working condition. Do not allow any oil on the brake or pressure plate.

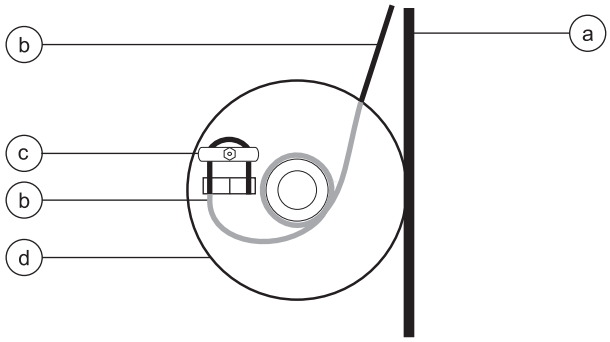
19 Install the input shaft cover.

20 Rotate the winch drum so that the oblong slot is visible and horizontal.

21 Install the cable keeper clip on the outside of the winch drum with one carriage bolt coming through from the inside. Install the lock washer and nut finger tight. Do not tighten the nut.

22 Route the end of the cable between the winch drum and the number one column. Proceed around the drum and up through the horizontal slot in the winch drum. The cable is then fed under the lefthand side of the cable clip, pulled forward, looped, and then fed under the right hand side of the cable keeper clip. The raw end of the cable is then fed into the righthand side of the horizontal slot in the winch drum.

⚠WARNING Crushing hazard. Failure to proprely route the cable may result in a winch brake failure.

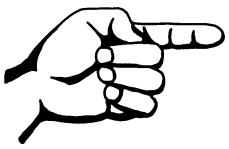


a Number one column
b Cable
c Cable keeper clip
d Winch drum

23 Tighten the cable keeper fastener.

24 While holding the cable tight on the drum, rotate the drum with a handle and spool the cable onto the drum evenly.

CAUTION Component damage hazard. Be sure the cable winds onto the winch drum evenly.



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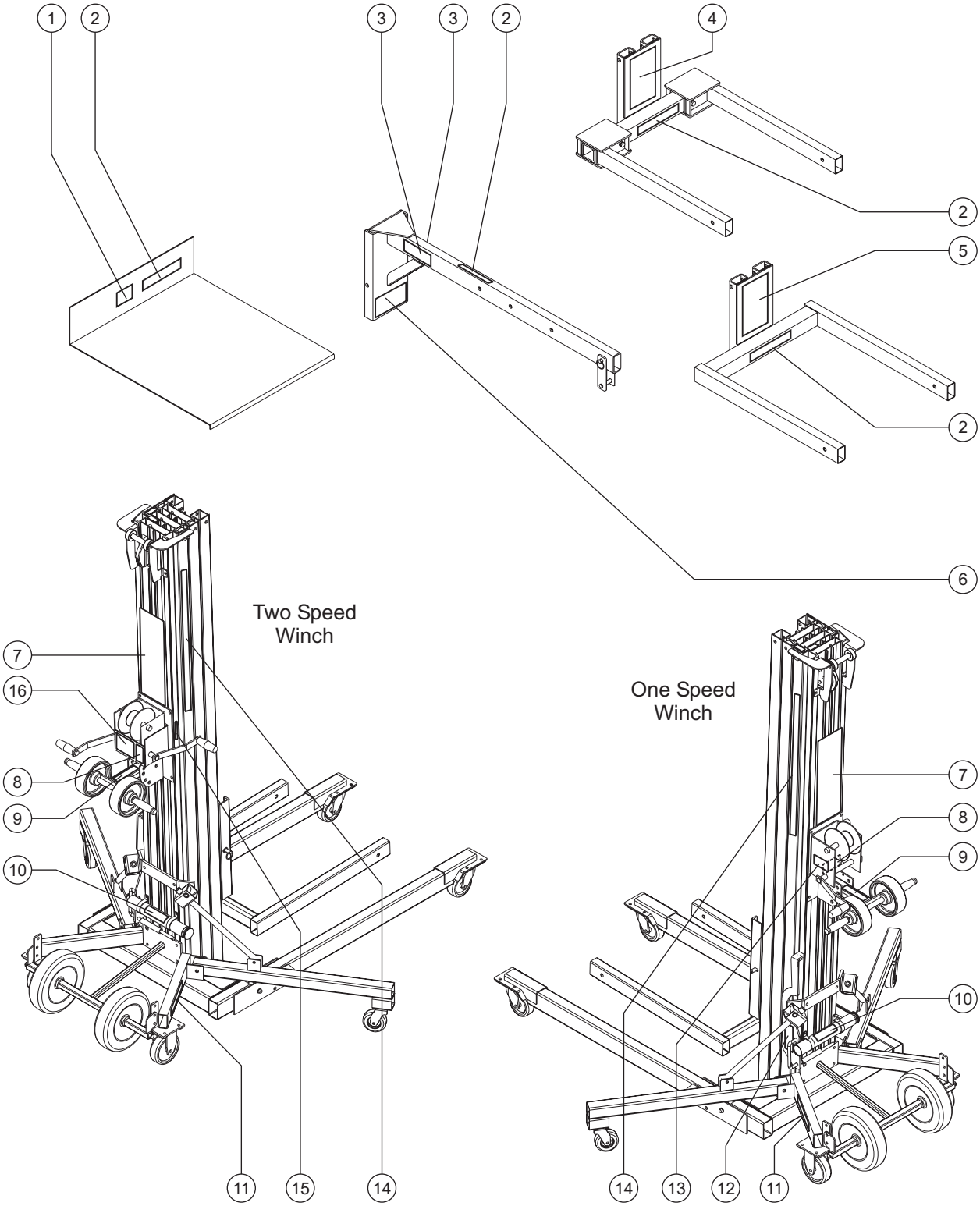
Section Six

Decals

Figure 6-A

REV A

Decals with Words (before serial number SLC04-28241)



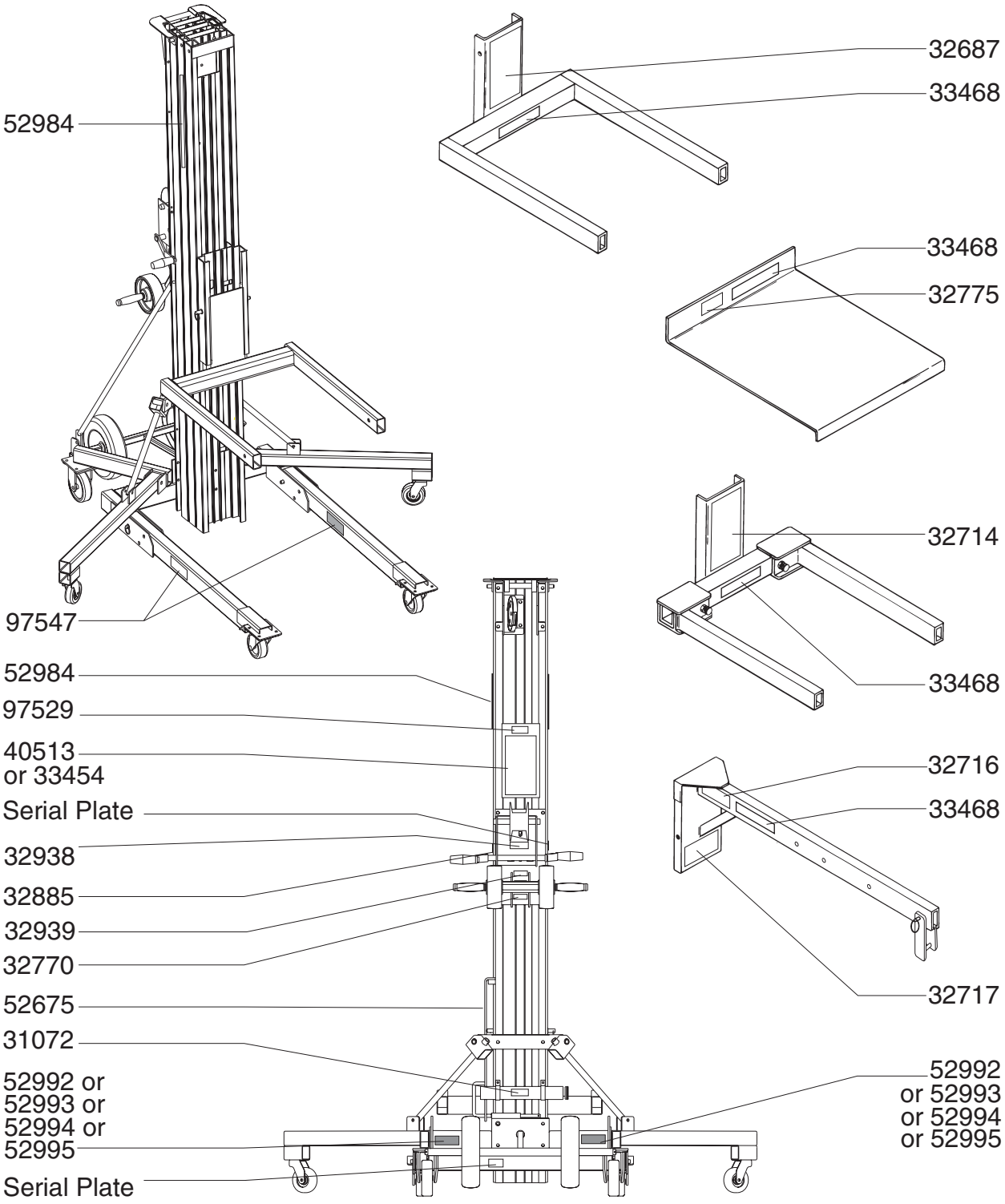
REV A FIGURE 6-A

Item	Part No.	Description	Qty.
—	48373	Decal Kit - Safety/Instructional (includes items 2, 5, 7 - 10 and 13) (before serial number SLC04-28241)	
—	84806	Decal Kit, Words (after serial number SLC04-28240)	
—	84807	Decal Kit, Symbols (after serial number SLC04-28240)	
1	32775	Warning - Fall Hazard	1
2	33468	Warning - No Riders	4
3	32716	Notice - Boom Setup	2
4	32714	Notice - Adjustable Fork Setup	1
5	32687	Warning - Standard Fork Safety	1
6	32717	Warning - Boom Safety	1
7	40513	Warning - Machine Safety	1
8	32938	Label - Use this Winch	1
9	32939	Warning - Crushing Hazard, Brake Lock	1
10	31072	Label - Operator's Manual Storage Container	1
11	52992	Cosmetic (SLC-6 models)	2
—	52993	Cosmetic (SLC-12 models)	
—	52994	Cosmetic (SLC-18 models)	
—	52995	Cosmetic (SLC-24 models)	
12	52675	Caution - Damaged Machine	1
13	32885	Warning - Silent Winch	1
14	52984	Cosmetic - Superlift Contractor	2
15	33982	Plate - Serial Number	1
16	32770	Label - Two Speed Winch	1

Figure 6-B

REV A

Decals with Words (after serial number SLC04-28240)



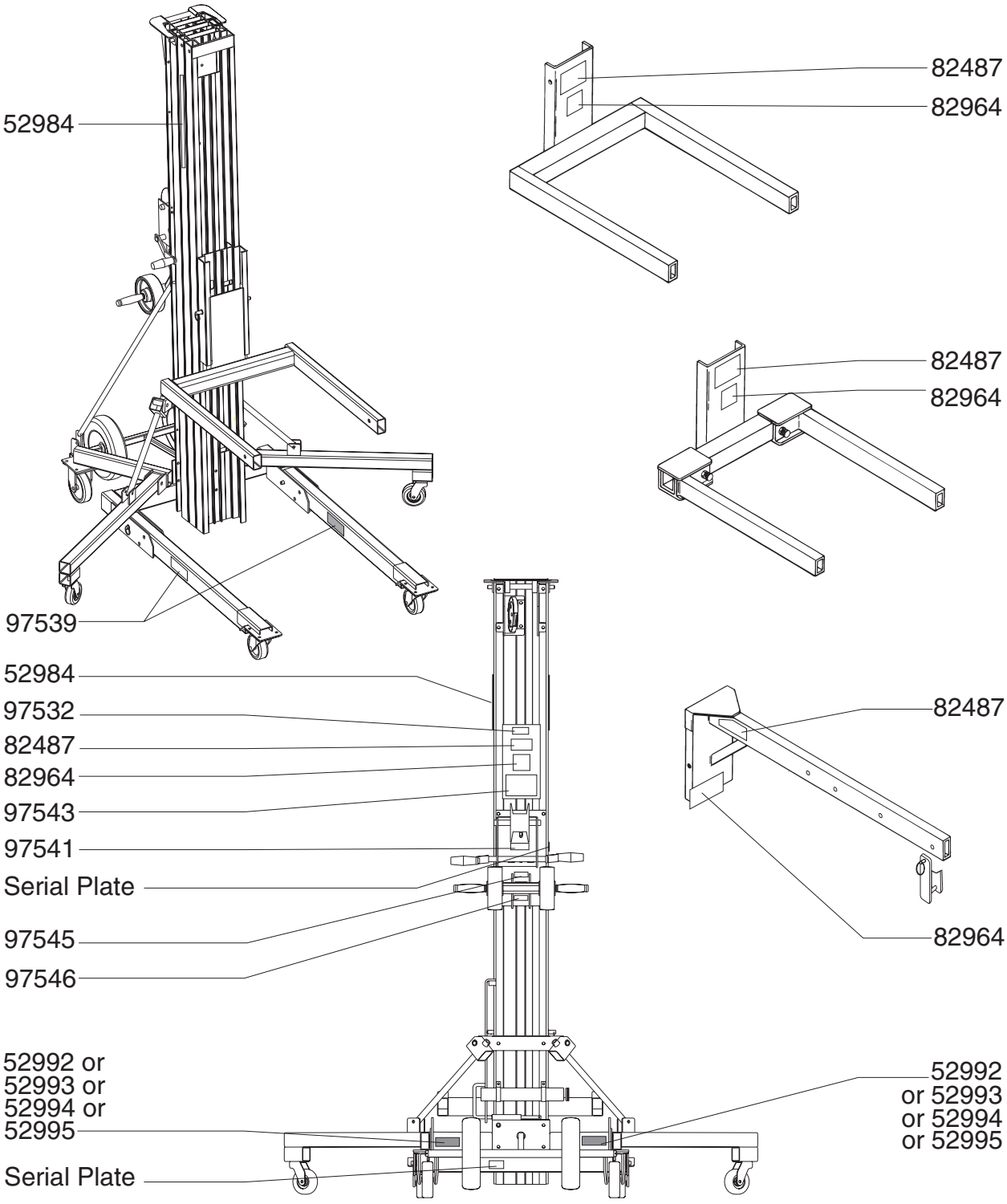
REV A FIGURE 6-B

Item	Part No.	Description	Qty.
1	31072	Decal, Label - Operator's Manual Container	1
2	32687	Decal, Warning - Standard Forks Safety/Setup	1
3	32714	Decal, Warning - Adjustable Forks Safety/Setup	1
4	32716	Decal, Notice - Boom Setup	1
5	32717	Decal, Warning - Boom Safety	1
6	32770	Decal, Notice - Two-Speed Shift Instructions	1
7	32775	Decal, Warning - Fall Hazard, Load Platform	1
8	32885	Decal, Warning - Silent Winch	1
9	32938	Decal, Label - Use this Winch	1
10	32939	Decal, Warning - Brake Lock	1
11	33468	Decal, Warning - No Riders	1
12	33545	Decal, Warning - Machine Safety & Setup (before serial number 9596-5288)	1
13	40513	Decal, Warning - Machine Safety & Setup (after serial number 9596-5287)	1
14	52675	Decal, Caution - Damaged Machine Hazard	1
15	52984	Decal, Cosmetic - Superlift Contactor Logo	2
16	52992	Decal, Cosmetic - SLC-6	2
—	52993	Decal, Cosmetic - SLC-12	2
—	52994	Decal, Cosmetic - SLC-18	2
—	52995	Decal, Cosmetic - SLC-24	2
17	97529	Decal, Caution - Bodily Injury Hazard	1
18	97547	Decal, Danger - Electrocution Hazard	2

Figure 6-C

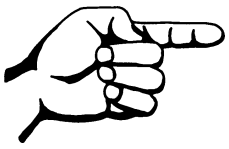
REV A

Decals with Symbols



REV A FIGURE 6-C

Item	Part No.	Description	Qty.
1	52984	Decal, Cosmetic - Superlift Contractor Logo	2
2	52992	Decal, Cosmetic - SLC-6	2
—	52993	Decal, Cosmetic - SLC-12	2
—	52994	Decal, Cosmetic - SLC-18	2
—	52995	Decal, Cosmetic - SLC-24	2
3	82487	Decal, Label - Read The Manual	1
4	82964	Decal, Warning - No Riders	1
5	97532	Decal, Caution - Bodily Injury Hazard	1
6	97539	Decal, Danger - Electrocution	2
7	97541	Decal, Label - Use This Winch	1
8	97543	Decal, Warning - Load Center Chart	1
9	97545	Decal, Warning - Lock Brake	1
10	97546	Decal, Notice - Two-Speed Shift	1



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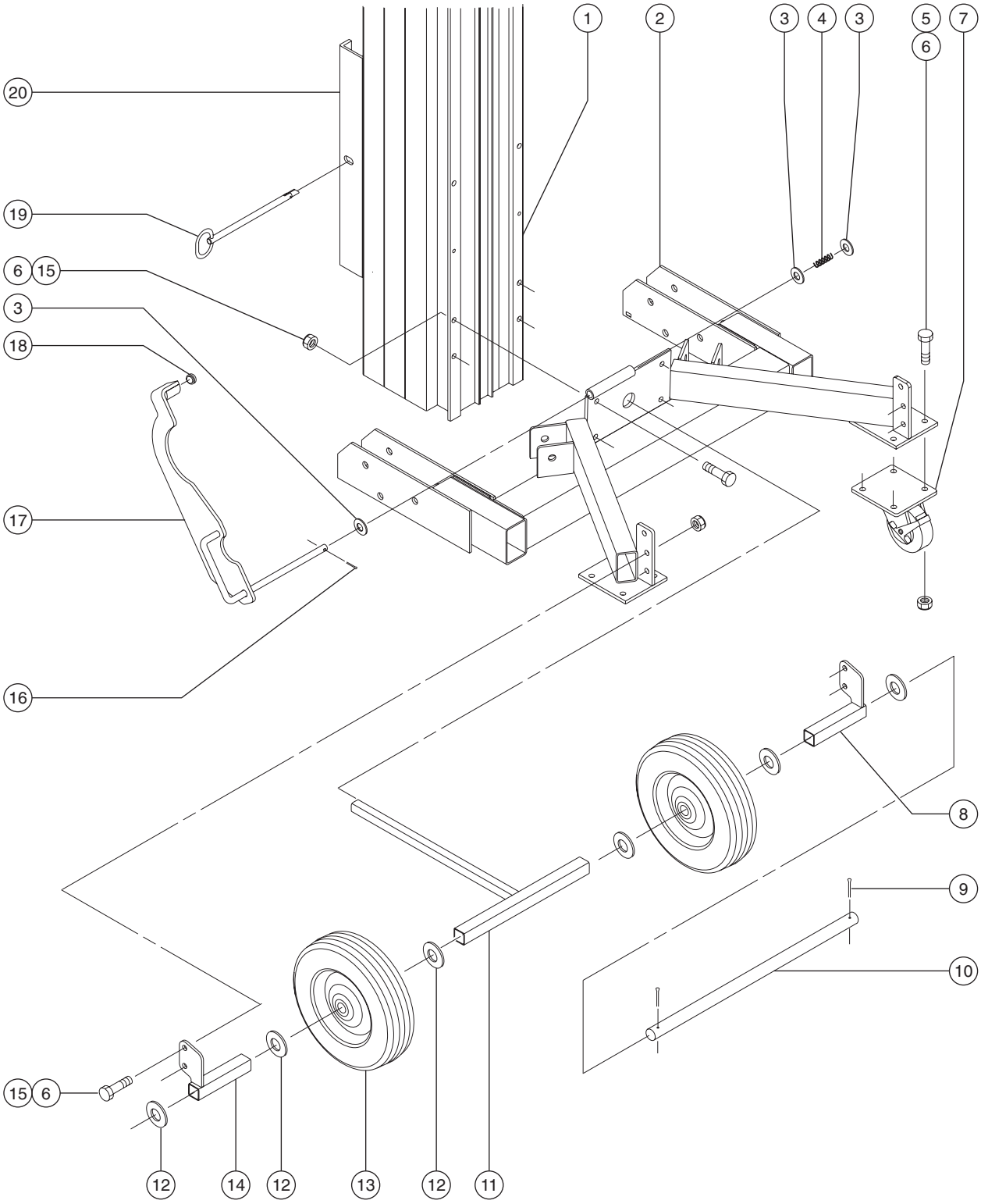
Section Seven

Base Components

Figure 7-A

REV A

Base Components, View 1



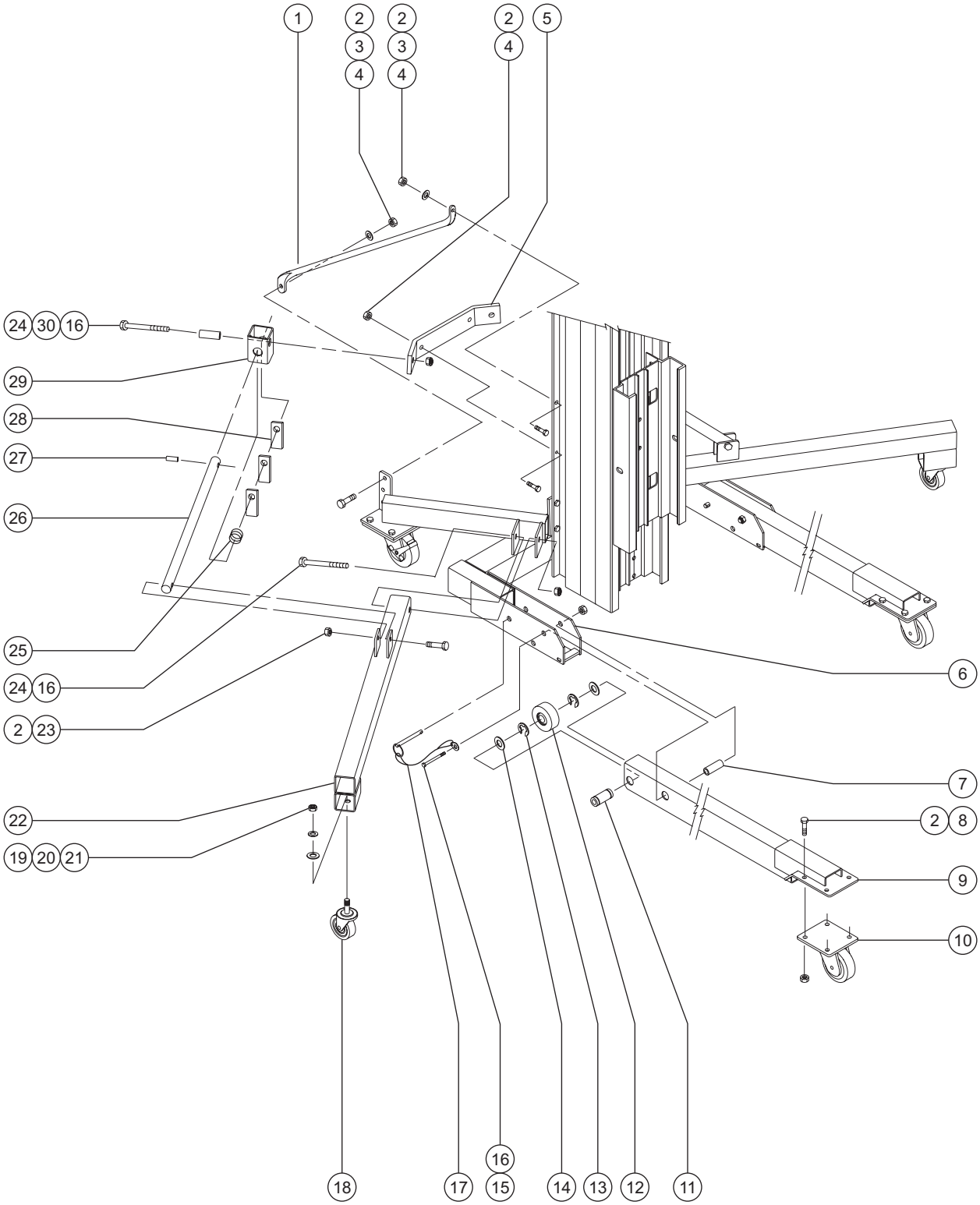
REV A FIGURE 7-A

Item	Part No.	Description	Qty.
1	Ref.	Columns (refer to Figure 8-D)	
2	80141-S	Base Assembly with Decals (SLC-6 models)	1
—	80142-S	Base Assembly with Decals (SLC-12 models)	
—	80143-S	Base Assembly with Decals (SLC-18 models)	
—	80144-S	Base Assembly with Decals (SLC-24 models)	
3	21443	Shim Washer, 0.45 x 0.75 x 0.063 inch	3
4	33658	Hold-down Spring	1
5	6175	Screw - HHC, $^3/_8$ -16 x 1 inch, GR 5	
6	4828	Nylock Nut, $^3/_8$ -16	
7	57735	Rear Swivel Caster, 5 x 1.5 inches	2
8	33830-S	Rear Spacer Mount Bracket, Right Side	1
9	6094	Cotter Pin, 0.125 x 1 inch	2
10	57237	Transport Wheels Axle Rod	1
11	33831-S	Wheel Spacer	1
12	6564	Shim Washer, 0.75 x 1.125 x 0.093 inch	6
13	35064	Rear Wheel, 10 x 0.75 inch	2
14	33829-S	Rear Spacer Mount Bracket, Left Side	1
15	6019	Screw - HHC, $^3/_8$ -16 x 1.25 inches, GR 5	
16	12016	Cotter Pin, 0.125 x 0.75 inch	1
17	58750	Hold-down Assembly with Decal (SLC-6 models) (includes item numbers 16 and 18)	1
—	58095	Hold-down Assembly with Decal (SLC-12 models) (includes items 16 and 18)	1
—	58095	Hold-down Assembly with Decal (SLC-18 models) (includes items 16 and 18)	
—	58095	Hold-down Assembly with Decal (SLC-24 models) (includes items 16 and 18)	
18	11890	Glide Button	1
19	48301	Toggle Pin, 0.5 x 8.13 inches	1
20	Ref.	Carriage (refer to Figure 8-D)	

Figure 7-B

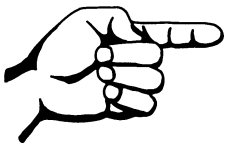
REV B

Base Components, View 2



REV B FIGURE 7-B

Item	Part No.	Description	Qty.
1	32883	Right Side Mast Brace	1
—	32884	Left Side Mast Brace	
2	4828	Nylock Nut, $^3/_8$ -16	
3	6097	Flat Washer, $^3/_8$ inch	
4	6019	Screw - HHC, $^3/_8$ -16 x 1.25 inches, GR 5	
5	35212-S	Stabilizer Mount Bracket	1
6	Ref.	Base Assembly with Decals (refer to Figure 7-A)	1
7	32509	Leg Pivot Tube	2
8	6175	Screw - HHC, $^3/_8$ -16 x 1 inch, GR 5	
9	35015	Leg Weldment (SLC-6 models)	2
—	35016	Leg Weldment (SLC-12 models)	
—	35017	Leg Weldment (SLC-18 models)	
—	35018	Leg Weldment (SLC-24 models)	
10	57734	Front Swivel Caster, 4 x 1.5 inches	2
11	32524	Leg Axle Tube	2
12	57782	Polyolefin Wheel, 2.5 x 1.25 inches	2
13	32499	E Clip, 0.875 inch	4
14	33373	Shim Washer, 0.938 x 1.5 x 0.09 inch	4
15	10598	Screw - HHC, $^1/_2$ -13 x 3 inches, GR 5	
16	6086	Low Profile Nylock Nut, $^1/_2$ -13	
17	100309	Pin Assembly with Lanyard	2
18	57746	Side Swivel Caster, 3.5 x 1.25 inches	2
19	6034	Hex Jam Nut, $^1/_2$ -13	
20	6033	Lock Washer, $^1/_2$ inch	
21	6095	Flat Washer, $^1/_2$ inch	
22	35019	Stabilizer Bracket	2
23	5224	Screw - HHC, $^3/_8$ -16 x 2 inches, GR 5	
24	6732	Screw - HHC, $^1/_2$ -13 x 3.25 inches, GR 5	
25	32519	Stabilizer Latch Spring	2
26	58094	Stabilizer Strut Assembly (includes item 27)	2
27	11337	Roll Pin, 0.25 x 1.25 inches	2
28	32577	Stabilizer Latch Plate	6
29	35213	Stabilizer Tube	2
30	32576	Stabilizer Pivot Tube	2



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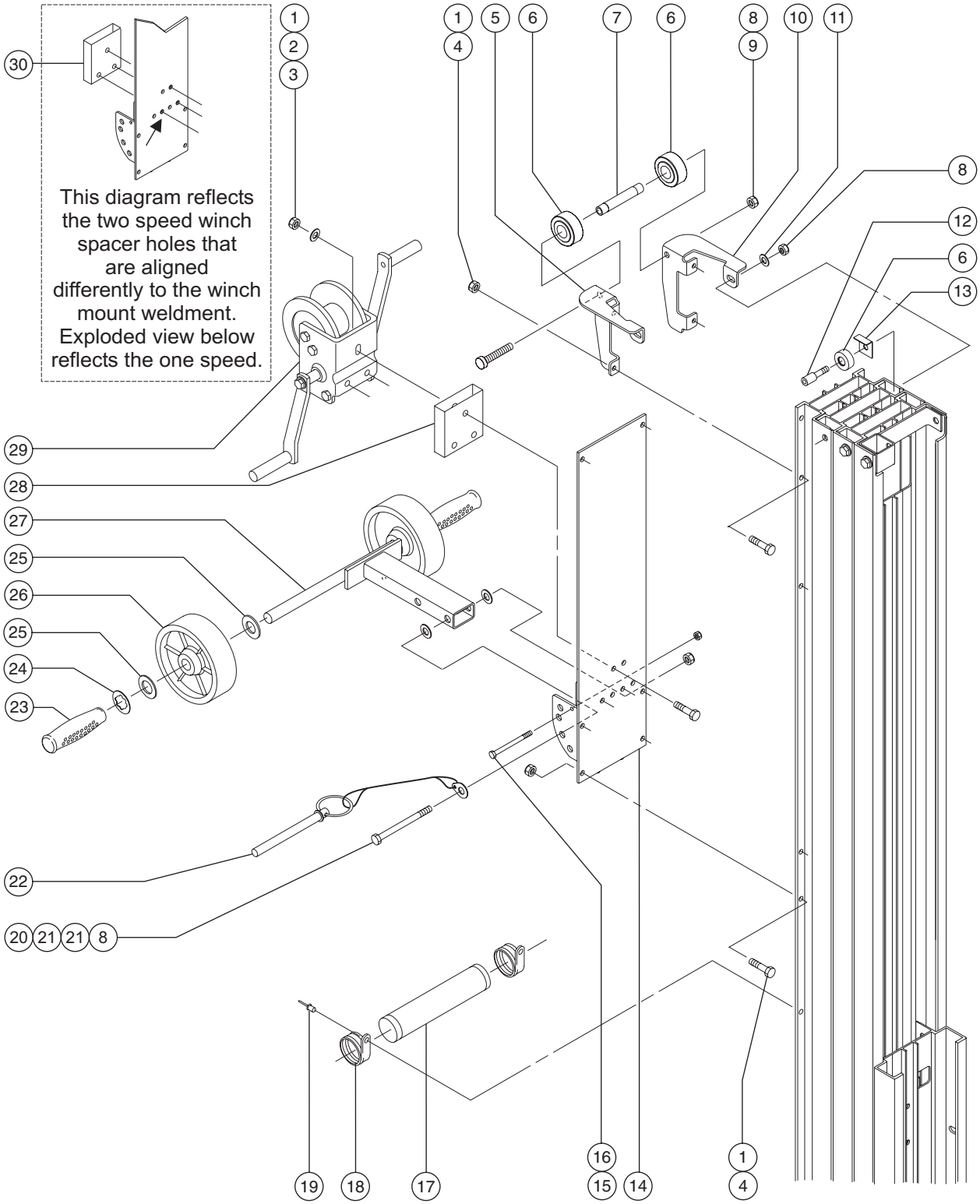
Section Eight

Mast and Winch Components

Figure 8-A

REV B

Mast Components, View 1



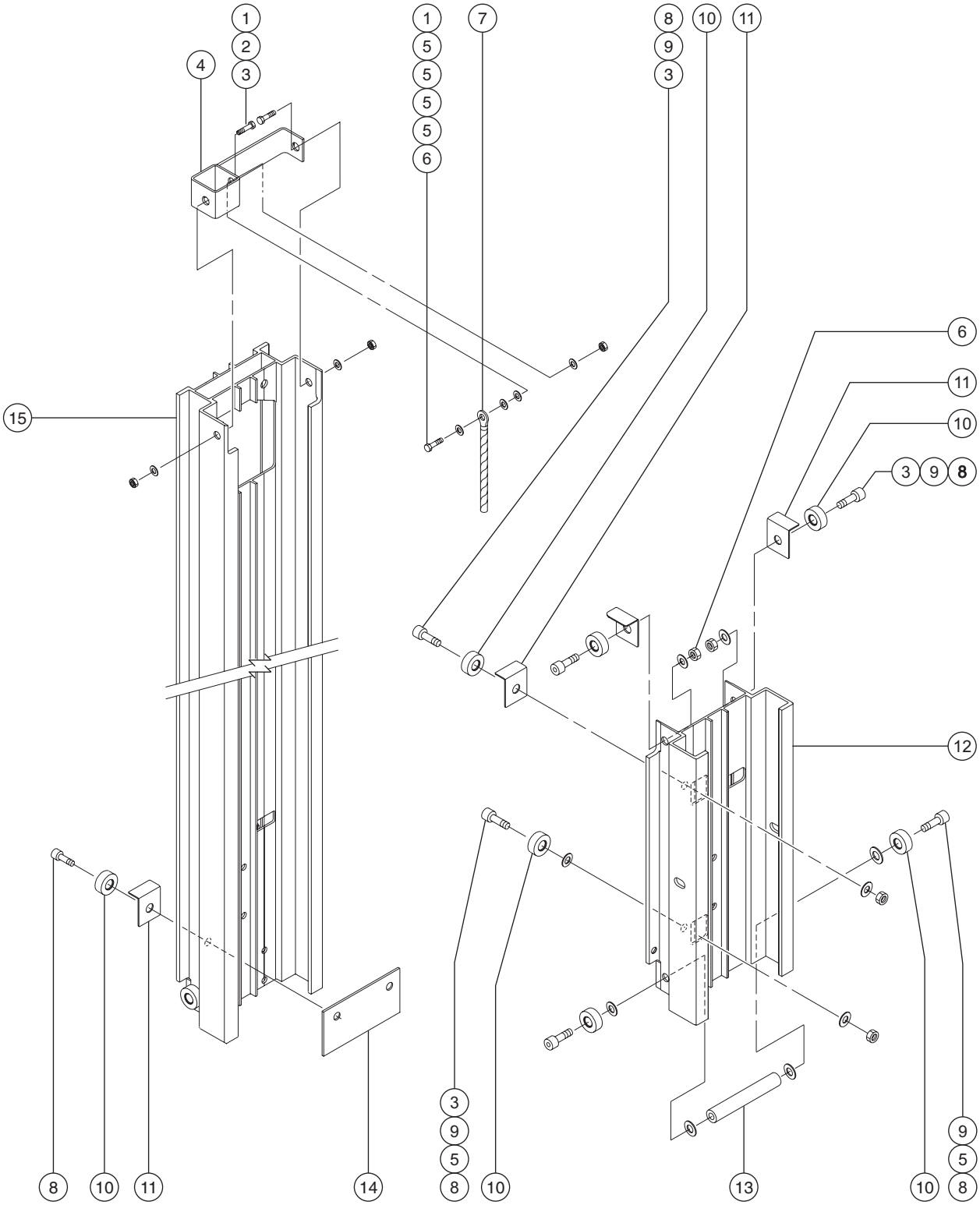
REV B FIGURE 8-A

Item	Part No.	Description	Qty.
1	4828	Nylock Nut, 3/8 -16	
2	6097	Flat Washer, 3/8 inch (One speed winch)	1
—	6097	Flat Washer, 3/8 inch (Two speed winch)	3
3	6326	Screw - HHC, 3/8 -16 x 3 inches, GR 5 (SLC-6 and SLC-12 models)	
—	6175	Screw - HHC, 3/8 -16 x 1 inch, GR 5 (SLC-18 and SLC-24 models)	
4	6019	Screw - HHC, 3/8 -16 x 1.25 inches	
5	109579	Mast Stiffener, Right, Gray	1
6	32473	Nylatron Roller, 1.75 x 0.72 inch	2
7	33843	Mast Stiffener Spacer, 4.56 x 0.75 inch	1
8	6198	Nylock Nut, 1/2 -13	
9	13005	Screw - HHC, 1/2 -13 x 6 inches, GR 8	1
10	109580	Mast Stiffener, Left, Gray	1
11	6095	Flat Washer, 1/2 inch	
12	32475	Roller Bolt, 1/2 -13 x 1.84 inches	2
13	32474	Roller Guard	2
14	33766	Winch Mount Bracket	1
15	12343	Screw - HHC, 1/4 -20 x 3 inches, GR 5	
16	6091	Nylock Nut, 1/4 -20	1
17	6600	Instruction Tube with Caps	1
18	6653	Rubber Cushioned Clamp, 1.88 inches	2
19	7265	Steel Rivet, 0.25 x 0.375 inch	2
20	6732	Screw - HHC, 1/2 -13 x 3.25 inches, GR 5	
21	11978	Nylon Flat Washer, 1/2 inch	
22	32940	Pin Assembly with Lanyard	1
23	6587	Rubber Grip	2
24	33385	Push-on Washer, 0.75 inch	2
25	6564	Shim Washer, 0.75 x 1.125 x 0.093 inch	
26	57788	Polyolefin Wheel, 6 x 2 inches	2
27	100301	Loading Wheel	1
—	33618	Loading Wheel	
—	33540	Loading Wheel Assembly w/ Word Decals (includes items 23 - 26)	
—	35819	Loading Wheel Assembly w/ Symbol Decals (includes items 23- 26)	
28	35834	Winch Spacer, One Speed (SLC-6 and SLC-12 models)	1
29	Ref.	Winch Assembly (refer to Figures 8-E or 8-F)	
30	49991	Winch Spacer, Two Speed (SLC-6 and SLC-12 models)	1

Figure 8-B

REV A

Mast Components, View 2



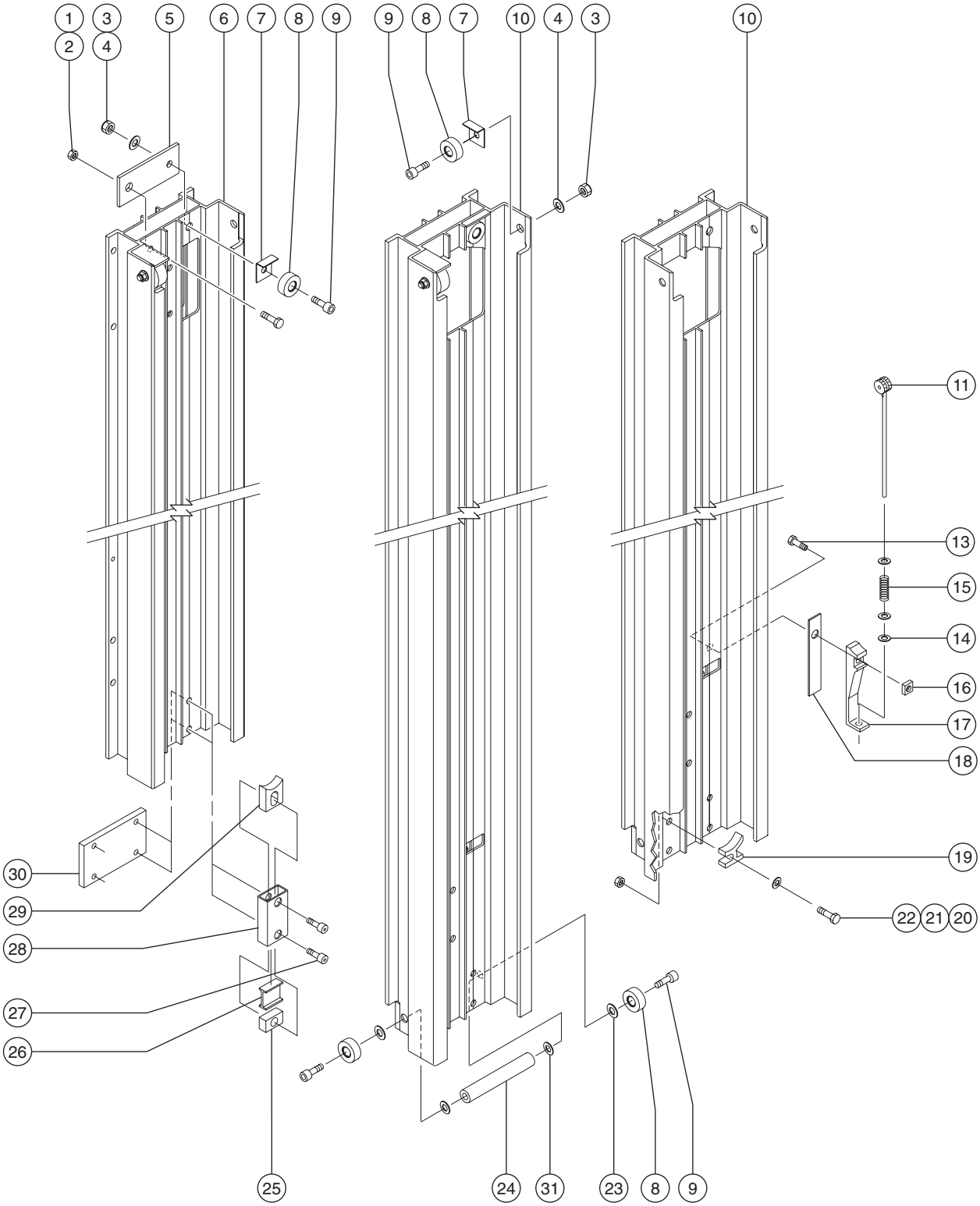
REV A FIGURE 8-B

Item	Part No.	Description	Qty.
1	10597	Screw - HHC, 1/2 -13 x 1.25 inches, GR 5	
2	6095	Flat Washer, 1/2 inch	
3	6198	Nylock Nut, 1/2 -13	
4	80987	Cable Anchor Kit (before serial number 23700)	1
—	80986	Cable Anchor Kit (after serial number 23701)	
5	6052	Shim Washer, 0.5 x 0.875 x 0.063 inch	
6	6086	Low Profile Nylock Nut, 1/2 -13	
7	Ref.	Cable Assembly (refer to Figure 8-D)	
8	32475	Roller Bolt, 1/2 -13 x 1.84 inches	8
9	13066	Hardened Flat Washer, 1/2 inch	6
10	32473	Nylatron Roller, 1.75 x 0.72 inch	8
11	32474	Roller Guard	5
12	Ref.	Carriage (refer to Figure 8-D)	
13	33811	Coupler Bar	1
14	57016	Doubler Plate	1
15	Ref.	Number 1 Column (refer to Figure 8-D)	

Figure 8-C

REV B

Mast Components, View 3

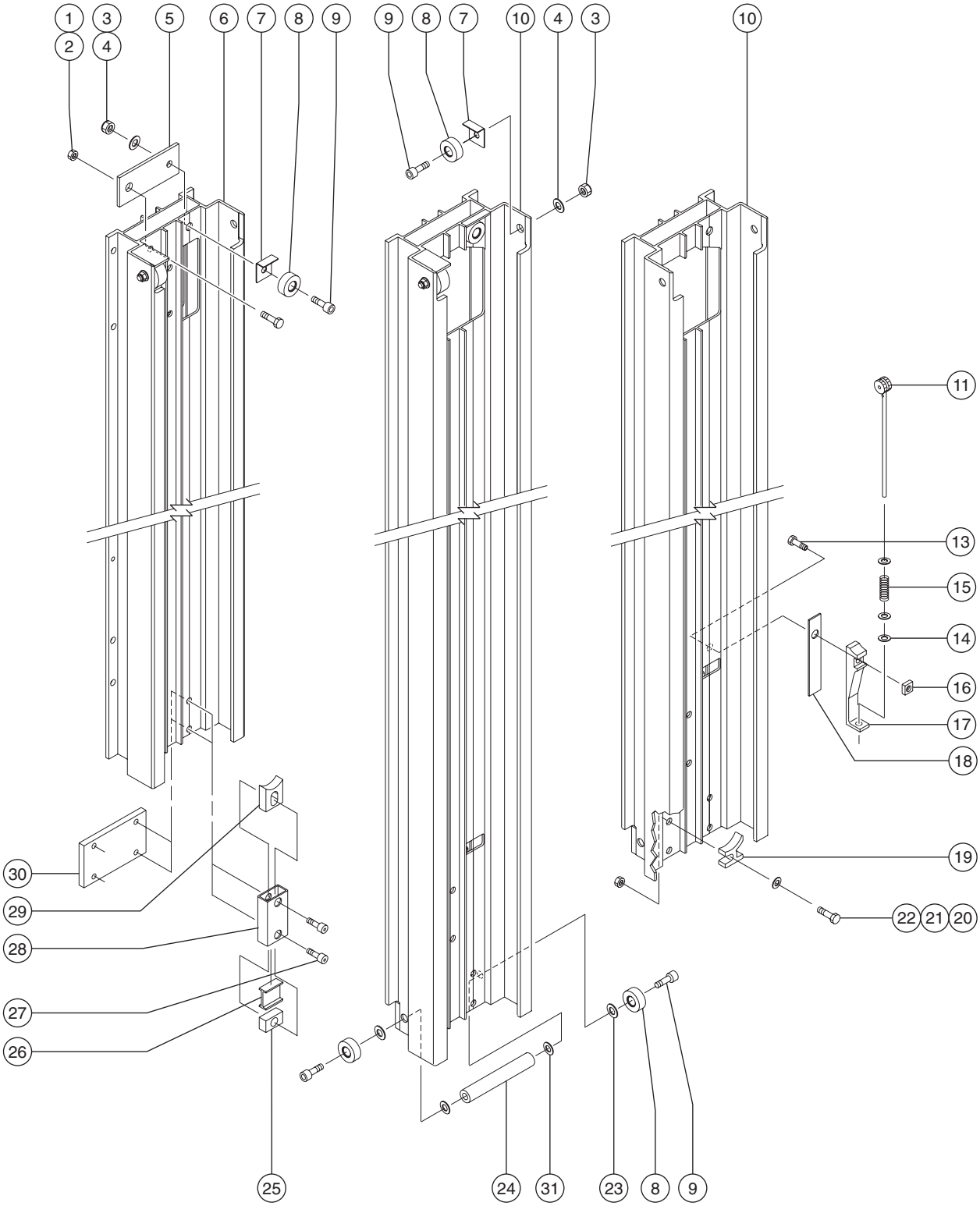


REV B FIGURE 8-C

Item	Part No.	Description	Qty.
1	7713	Low Profile Nylock Nut, 3/8 -16	
2	8255	Screw - HHC, 3/8 -16 x 0.75 inch, GR 5	
3	6198	Nylock Nut, 1/2 -13 (SLC-6 models)	3
—	6198	Nylock Nut, 1/2 -13 (SLC-12 models)	6
—	6198	Nylock Nut, 1/2 -13 (SLC-18 models)	9
—	6198	Nylock Nut, 1/2 -13 (SLC-24 models)	12
4	6095	Flat Washer, 1/2 inch (SLC-6 models)	3
—	6095	Flat Washer, 1/2 inch (SLC-12 models)	6
—	6095	Flat Washer, 1/2 inch (SLC-18 models)	9
—	6095	Flat Washer, 1/2 inch (SLC-24 models)	12
5	57016	Doubler Plate	1
6	Ref.	Number 1 Column (refer to Figure 8-D)	
7	32474	Roller Guard (SLC-6 models)	3
—	32474	Roller Guard (SLC-12 models)	8
—	32474	Roller Guard (SLC-18 models)	13
—	32474	Roller Guard (SLC-24 models)	18
8	32473	Nylatron Roller, 1.75 x 0.72 inch (SLC-6 models)	3
—	32473	Nylatron Roller, 1.75 x 0.72 inch (SLC-12 models)	10
—	32473	Nylatron Roller, 1.75 x 0.72 inch (SLC-18 models)	17
—	32473	Nylatron Roller, 1.75 x 0.72 inch (SLC-24 models)	24
9	32475	Roller Bolt, 1/2 -13 x 1.84 inches (SLC-6 models)	3
—	32475	Roller Bolt, 1/2 -13 x 1.84 inches (SLC-12 models)	10
—	32475	Roller Bolt, 1/2 -13 x 1.84 inches (SLC-18 models)	17
—	32475	Roller Bolt, 1/2 -13 x 1.84 inches (SLC-24 models)	24
10	Ref.	Number 2 Column (refer to Figure 8-D)	
11	33877	Safety Brake Assembly (SLC-6 models) (installed on carriage) (includes 3 each of item 14 and items 13 and 15 - 17)	1
—	33877	Safety Brake Assembly (SLC-12 models) (includes 3 each of item 14 and items 13 and 15 - 17)	2
—	33877	Safety Brake Assembly (SLC-18 models) (includes 3 each of item 14 and items 13 and 15 - 17)	3
—	33877	Safety Brake Assembly (SLC-24 models) includes 3 each of item 14 and items 13 and 15 - 17)	4
12	35443	Up Stop (models without safety brake) (SLC-12 models) (not shown)	1
—	35443	Up Stop (models without safety brake) (SLC-18 models) (not shown)	2
—	35443	Up Stop (models without safety brake) (SLC-24 models) (not shown)	3
13	35463	Screw - FHS, 3/8 -16 x 1.5 inches (SLC-6 models)	1
—	35463	Screw - FHS, 3/8 -16 x 1.5 inches (SLC-12 models)	2
—	35463	Screw - FHS, 3/8 -16 x 1.5 inches (SLC-18 models)	3
—	35463	Screw - FHS, 3/8 -16 x 1.5 inches (SLC-24 models)	4
14	21443	Shim Washer, 0.45 x 0.75 x 0.063 inch (SLC-6 models)	3
—	21443	Shim Washer, 0.45 x 0.75 x 0.063 inch (SLC-12 models)	6
—	21443	Shim Washer, 0.45 x 0.75 x 0.063 inch (SLC-18 models)	9
—	21443	Shim Washer, 0.45 x 0.75 x 0.063 inch (SLC-24 models)	12

This parts list continues. Please turn the page.

FIGURE 8-C REV B



REV B FIGURE 8-C

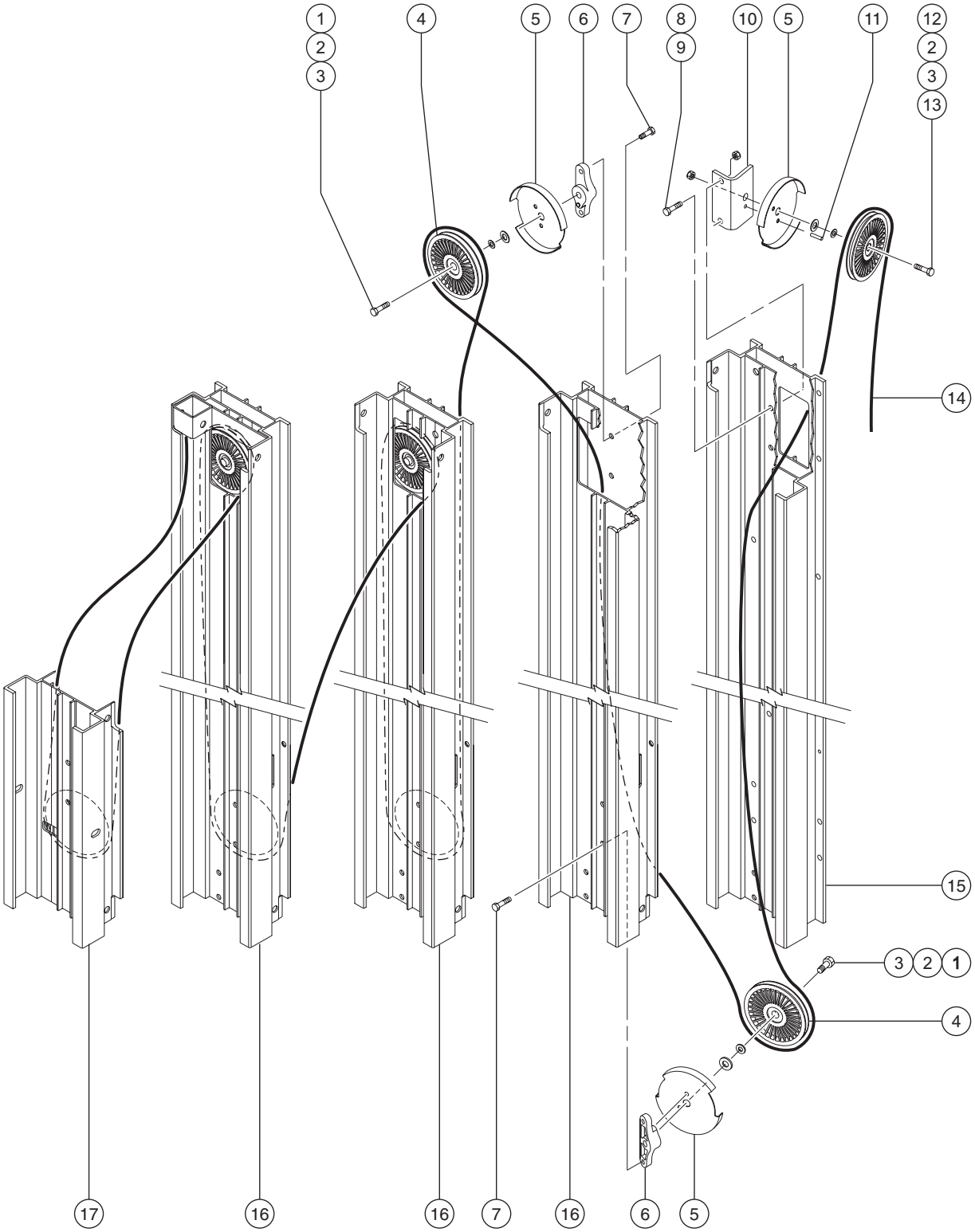
Item	Part No.	Description	Qty.
15	32481	Safety Brake Spring (SLC-6 models)	1
—	32481	Safety Brake Spring (SLC-12 models)	2
—	32481	Safety Brake Spring (SLC-18 models)	3
—	32481	Safety Brake Spring (SLC-24 models)	4
16	35408	Square Nut, 3/8 -16, Plated (SLC-6 models)	1
—	35408	Square Nut,, 3/8 -16, Plated (SLC-12 models)	2
—	35408	Square Nut,, 3/8 -16, Plated (SLC-18 models)	3
—	35408	Square Nut, 3/8 -16, Plated (SLC-24 models)	4
17	33606	Safety Brake Ramp (SLC-6 models)	1
—	33606	Safety Brake Ramp (SLC-12 models)	2
—	33606	Safety Brake Ramp (SLC-18 models)	3
—	33606	Safety Brake Ramp (SLC-24 models)	4
18	35442	Safety Brake Shim (SLC-6 models)	1
—	35442	Safety Brake Shim (SLC-12 models)	2
—	35442	Safety Brake Shim (SLC-18 models)	3
—	35442	Safety Brake Shim (SLC-24 models)	4
19	32522	Down Stop	1
20	6175	Screw - HHC, 3/8 -16 x 1 inch, GR 5	
21	5397	Flat Washer, 5/16 inch	
22	4828	Nylock Nut, 3/8 -16	
23	6052	Shim Washer, 0.5 x 0.875 x 0.063 inch (SLC-12 models)	2
—	6052	Shim Washer, 0.5 x 0.875 x 0.063 inch (SLC-18 models)	4
—	6052	Shim Washer, 0.5 x 0.875 x 0.063 inch (SLC-24 models)	6

Item	Part No.	Description	Qty.
24	33811	Coupler Bar (SLC-6 models) (installed on carriage)	1
—	33811	Coupler Bar (SLC-12 models)	2
—	33811	Coupler Bar (SLC-18 models)	3
—	33811	Coupler Bar (SLC-18 models)	4
25	57019	Down Stop Block (SLC-12 models)	1
—	57019	Down Stop Block (SLC-18 models)	4
—	57019	Down Stop Block (SLC-24 models)	6
26	57022	Down Stop Rubber Bumper (SLC-12 models)	1
—	57022	Down Stop Rubber Bumper (SLC-18 models)	4
—	57022	Down Stop Rubber Bumper (SLC-24 models)	6
27	57023	Shoulder Bolt, 3/8 -16 x 0.75 inch, GR 5 (SLC-12 models)	2
—	57023	Shoulder Bolt, 3/8 -16 x 0.75 inch, GR 5 (SLC-18 models)	8
—	57023	Shoulder Bolt, 3/8 -16 x 0.75 inch, GR 5 (SLC-24 models)	12
28	57021	Down Stop Tube (SLC-12 models)	1
—	57021	Down Stop Tube (SLC-18 models)	4
—	57021	Down Stop Tube (SLC-24 models)	6
29	57018	Down Stop Plunger Block (SLC-12 models)	1
—	57018	Down Stop Plunger Block (SLC-18 models)	4
—	57018	Down Stop Plunger Block (SLC-24 models)	6
30	57024	Down Stop Plate (SLC-12 models)	1
—	57024	Down Stop Plate (SLC-18 models)	2
—	57024	Down Stop Plate (SLC-24 models)	3
31	13066	Hardened Flat Washer, 1/2 inch	

Figure 8-D

REV B

Columns, Pulleys and Cables



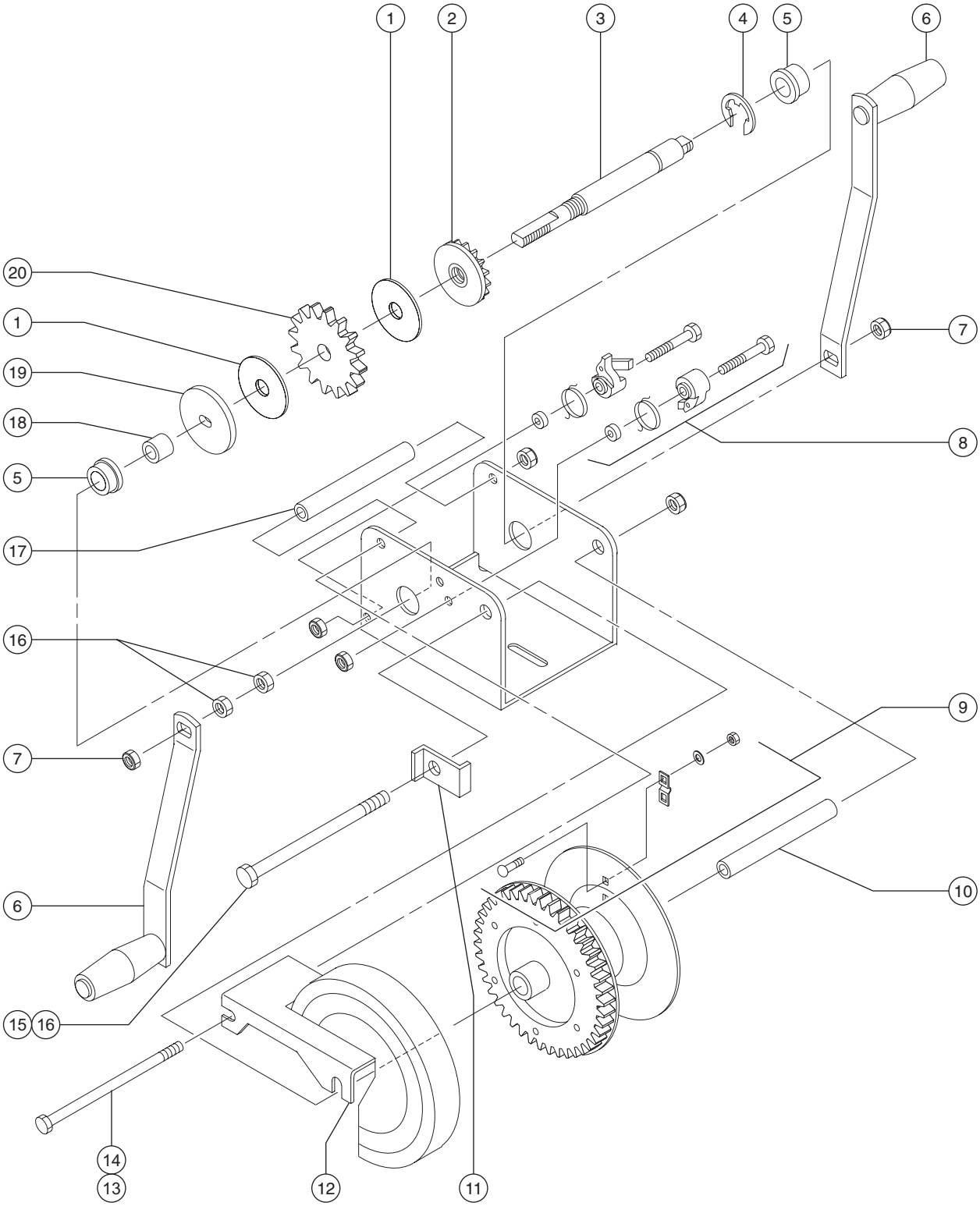
REV B FIGURE 8-D

Item	Part No.	Description	Qty.
1	10597	Screw - HHC, 1/2 -13 x 1.25 inches, GR 5 (SLC-6 models)	1
—	10597	Screw - HHC, 1/2 -13 x 1.25 inches, GR 5 (SLC-12 models)	3
—	10597	Screw - HHC, 1/2 -13 x 1.25 inches, GR 5 (SLC-18 models)	5
—	10597	Screw - HHC, 1/2 -13 x 1.25 inches, GR 5 (SLC-24 models)	7
2	37038	Shim Washer, 0.51 x 0.8 x 0.125 inch (SLC-6 models)	2
—	37038	Shim Washer, 0.51 x 0.8 x 0.125 inch (SLC-12 models)	4
—	37038	Shim Washer, 0.51 x 0.8 x 0.125 inch (SLC-18 models)	6
—	37038	Shim Washer, 0.51 x 0.8 x 0.125 inch (SLC-24 models)	8
3	6052	Shim Washer, 0.5 x 0.875 x 0.063 inch (SLC-6 models)	2
—	6052	Shim Washer, 0.5 x 0.875 x 0.063 inch (SLC-12 models)	4
—	6052	Shim Washer, 0.5 x 0.875 x 0.063 inch (SLC-18 models)	6
—	6052	Shim Washer, 0.5 x 0.875 x 0.063 inch (SLC-24 models)	8
4	49999	Pulley with Bearing, 4.65 x 4.05 inches (SLC-6 models)	2
—	49999	Pulley with Bearing, 4.65 x 4.05 inches (SLC-12 models)	4
—	49999	Pulley with Bearing, 4.65 x 4.05 inches (SLC-18 models)	6
—	49999	Pulley with Bearing, 4.65 x 4.05 inches (SLC-24 models)	8
5	80680	Cable Guard (SLC-6 models) (after serial number SLC02-21794)	2
—	80680	Cable Guard (SLC-12 models) (after serial number SLC02-21794)	4
—	80680	Cable Guard (SLC-18 models) (after serial number SLC02-21794)	6
—	80680	Cable Guard (SLC-24 models) (after serial number SLC02-21794)	8
6	32470	Pulley Mount (SLC-6 models)	1
—	32470	Pulley Mount (SLC-12 models)	3
—	32470	Pulley Mount (SLC-18 models)	5
—	32470	Pulley Mount (SLC-24 models)	7
7	8255	Screw - HHC, 3/8 -16 x 0.75 inch, GR 5 (SLC-6 models)	2
—	8255	Screw - HHC, 3/8 -16 x 0.75 inch, GR 5 (SLC-12 models)	6
—	8255	Screw - HHC, 3/8 -16 x 0.75 inch, GR 5 (SLC-18 models)	10
7	8255	Screw - HHC, 3/8 -16 x 0.75 inch, GR 5 (SLC-24 models)	
8	6019	Screw - HHC, 3/8 -16 x 1.25 inches, GR 5 (all models)	
9	4828	Nylock Nut, 3/8 -16	
10	32471	Pulley Guard Bracket (all models)	1
11	32483	Roll Pin, 0.25 x 0.5 inch (all models)	1
12	22788	Screw - HHC, 1/2 -13 x 1.75 inches, GR 5 (all models)	
13	6198	Nylock Nut, 1/2 -13 (all models)	
14	35005	Cable Assembly (SLC-6 models)	1
—	6099	Cable Assembly (SLC-12 models)	
—	7250	Cable Assembly (SLC-18 models)	
—	7251	Cable Assembly (SLC-24 models)	
15	57028-S	Number 1 Column (all models)	1
16	57029-S	Number 2 Column (SLC-12 models)	1
—	57029-S	Number 2 Column (SLC-18 models)	2
—	33833	Number 2 Column (SLC-24 models) (before serial number 9599-4578)	3
—	57029-S	Number 2 Column (SLC-24 models) (after serial number 9599-4577)	
17	57031-S	Carriage (all models)	1

Figure 8-E

REV A

Winch Components - Single Speed



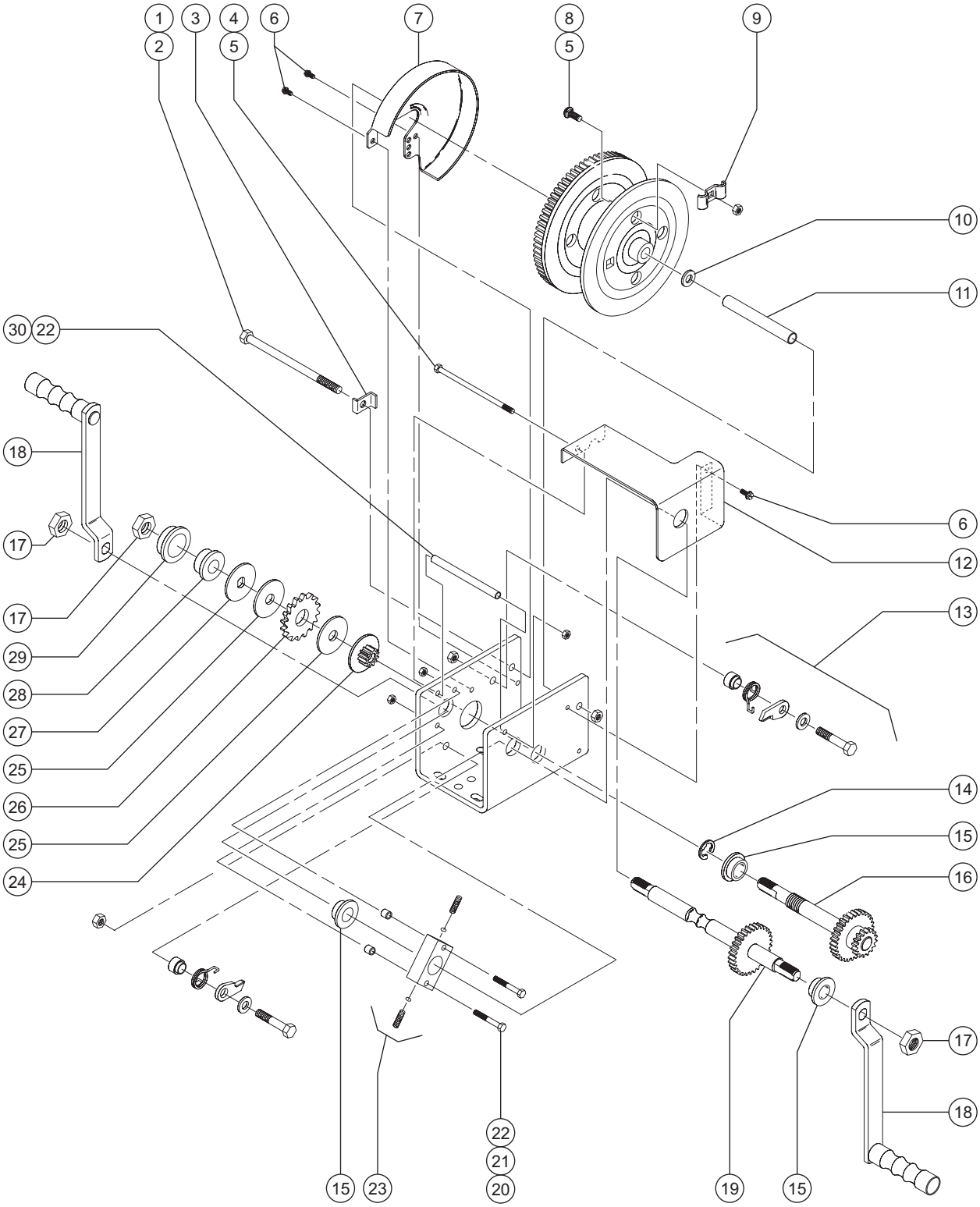
REV A FIGURE 8-E

Item	Part No.	Description	Qty.
—	32945	Single Speed Winch Assembly with Decals (decals are listed in Section Six)	
1	7571	Disc Brake	2
2	7590	Pinion Gear	1
3	32891	Pinion Shaft	1
4	6200	Retaining Ring, 0.75 inch	1
5	6199	Pinion Shaft Bushing	2
6	33143	Winch Handle, 6 inches (SLC-6 models)	2
—	33144	Winch Handle, 8 inches (SLC-12, 18 and 24 models)	
7	6086	Low Profile Nylock Nut, 1/2 -13	
8	40458	Ratchet Pawl Kit	1
9	6190	Cable Keeper Kit	1
—	80159	Carriage Bolt, 10-24 x 0.63 inch	2
—	80160	Cable Keeper	1
—	80161	Internal Star Washer, 5/8 inch	2
—	25625	Hex Nut, 10-24	2
10	6184	Drum Spacer	1
11	31946	Drum Lock Bolt	1
12	6770	Winch Gear Cover	1
13	7256	Screw - HHC, 5/16 -18 x 6 inches, GR 2	
14	6782	Nylock Nut, 5/16 -18	1
15	6185	Drum Bolt	1
16	6034	Hex Jam Nut, 1/2 -13	3
17	7584	Frame Spacer	1
18	32890	Pinion Shaft Spacer	1
19	7591	Pinion Plate	1
20	6777	Ratchet Gear	1

Figure 8-F

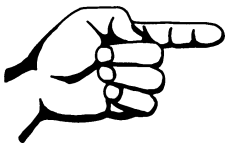
REV A

Winch Components - Two Speed (after serial number 9501-16465)



REV A FIGURE 8-F

Item	Part No.	Description	Qty.
—	32946	Two Speed Winch Assembly with Decals (after serial number 9501-16465)	
—	40130	Cable Keeper Kit (includes item numbers 5, 8 and 9)	
1	78037	Screw - HHC, 3/8 -16 x 5.5 inches	
2	4828	Nylock Nut, 3/8 -16	
3	80145	Reel Lock Bolt	1
4	80146	Screw - HHC, 1/4 -20 x 5.25 inches	
5	6091	Nylock Nut, 1/4 -20	
6	80147	Screw - FHC, Threaded, 0.5 inch	
7	80148	Reel Cover	1
8	80149	Carriage Bolt, 1/4 -20 x 0.5 inch	
9	37065	Cable Keeper	1
10	80150	Flat Washer, 1/2 inch	
11	40113	Reel Spacer	1
12	80151	Gear Cover	1
13	40117	Ratchet Pawl Kit	1
—	8516	Screw - HHC, 3/8 -16 x 1.5 inches, GR 5	
—	5397	Flat Washer, 5/16 inch	
—	80154	Ratchet Pawl	
—	80153	Ratchet Spring	
—	80152	Ratchet Spacer	
—	4828	Nylock Nut, 3/8 -16	
14	40116	Retaining Ring, 0.75 inch	1
15	40126	Sintered Iron Bearing, 0.75 inch	3
16	80155	Pinion Shaft Assembly	1
17	38028	Low Profile Nylock Nut, 5/8 -11	
18	40125	Handle, 8 inches	2
19	72264	Input Shaft Assembly	1
20	6145	Screw - HHC, 1/4 -20 x 1.5 inches, GR 5	
21	40115	Brake Spring Spacer	2
22	6889	Low Profile Nylock Nut, 1/4 -20	
23	40127	Detent Block Assembly	1
—	40509	Detent Spring	2
—	40510	Detent Ball	2
—	80156	Detent Block	1
24	80157	Pinion Gear	1
25	37061	Disc Break	2
26	37062	Ratchet Gear	1
27	40122	Pinion Plate	1
28	40123	Brake Spacer	1
29	37064	Sintered Iron Bearing 1.25 inches	1
30	40128	Base Spacer	1



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Section Nine

Load Handling Attachments

Figure 9-A

Forks

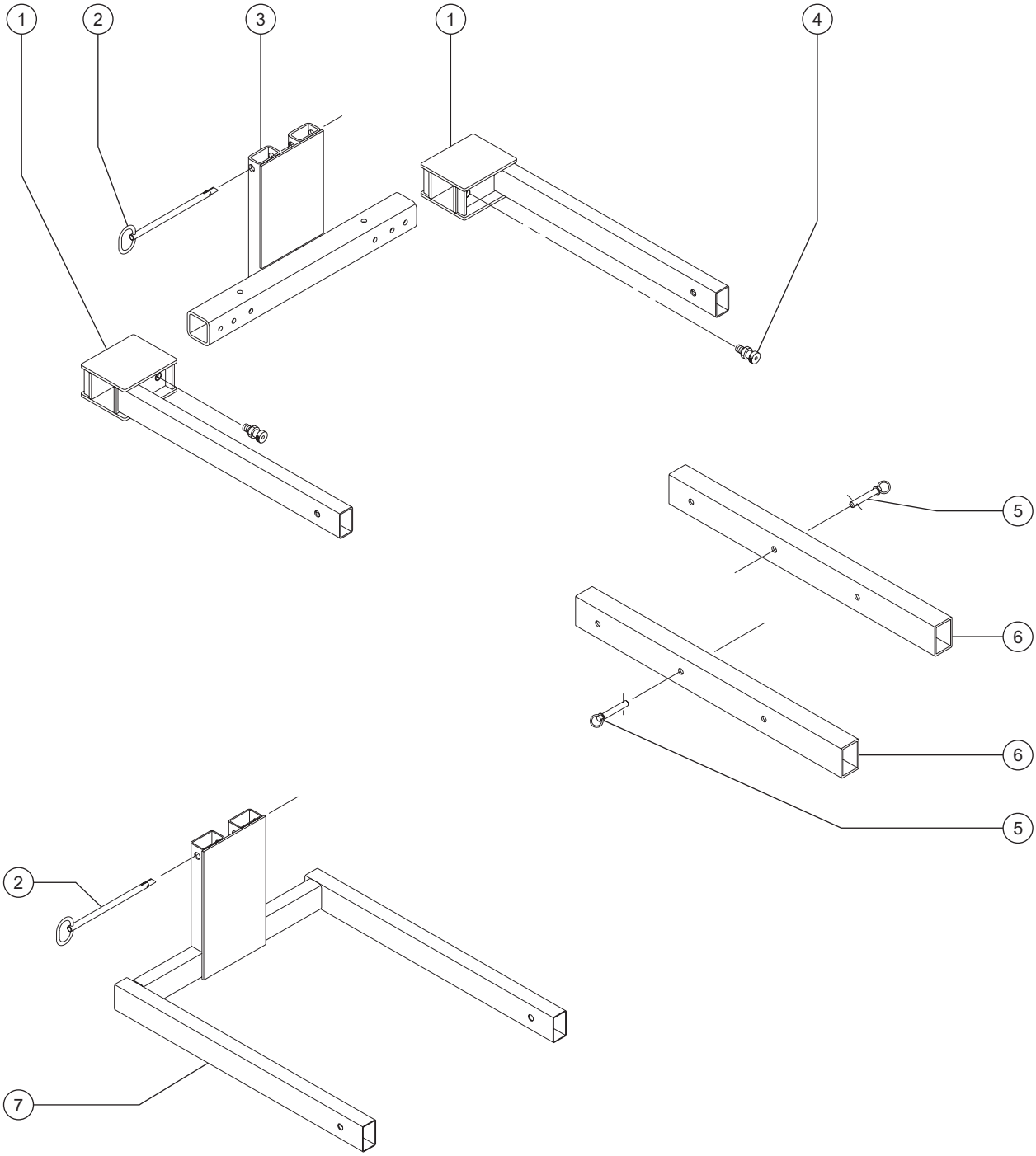

FIGURE 9-A

Item	Part No.	Description	Qty.
—	33543-S	Adjustable Fork Assembly (includes items 1 - 4)	
1	33707-S	Adjustable Fork	2
2	48301	Toggle Pin, 0.5 x 8.13 inches	2
3	35821	Adjustable Carrier Assembly	1
4	33674	Snap Pin, 0.375 x 0.25 inch	2
5	80679	Ball Retaining Pin, 0.5 x 2.5 inches	2
6	33366-S	Fork Extension	2
7	33984	Standard Fork Assembly	1

Figure 9-B

Pipe Cradle, Load Platform and Boom Arm

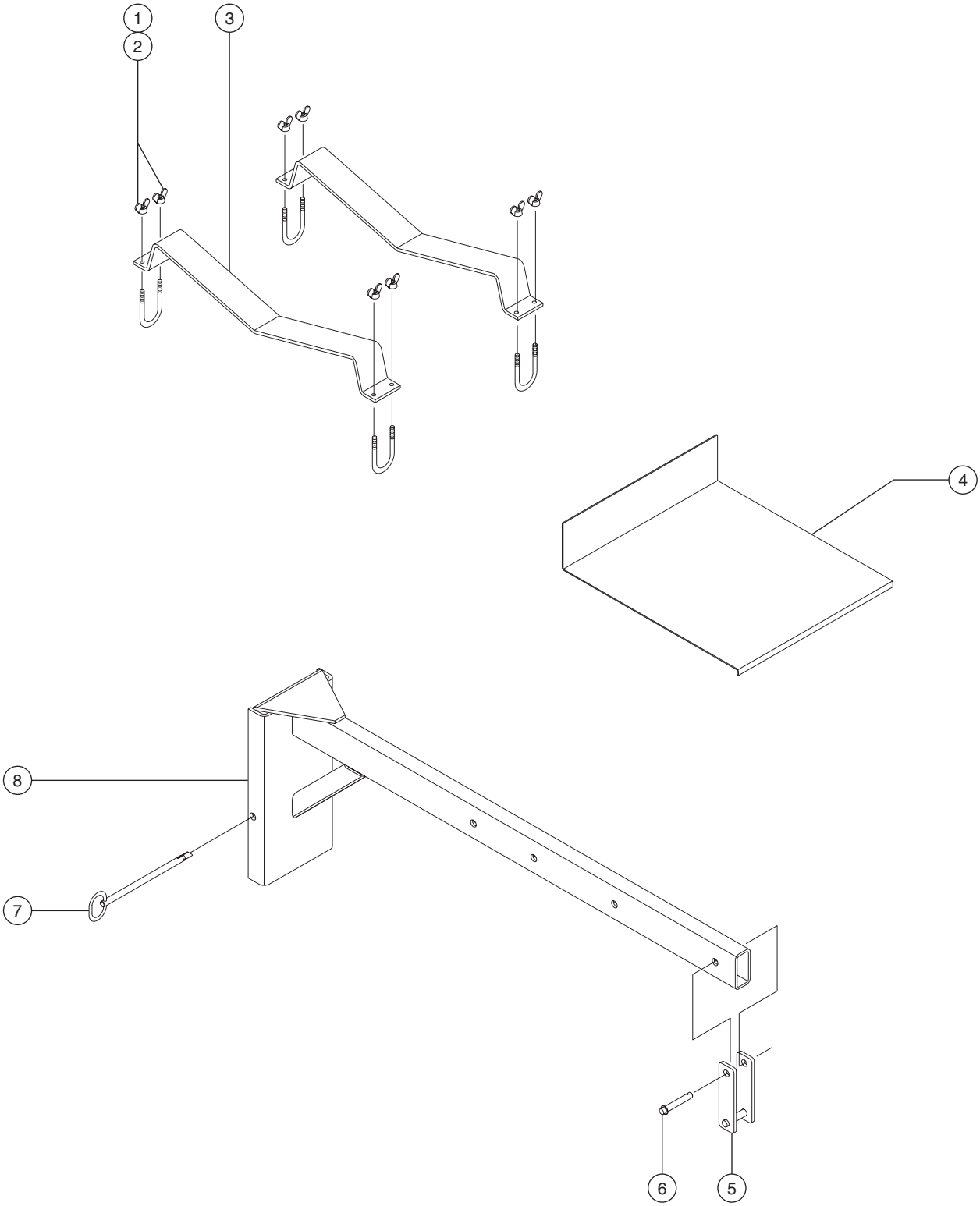

FIGURE 9-B

Item	Part No.	Description	Qty.
1	8170	Wing Nut, $^1/_4$ -20	8
2	33045	U-bolt, $^1/_4$ -20 x 1.5 x 3.75 x 1.25 inches	4
3	80597	Pipe Cradle	2
4	35021	Load Platform Assembly	1
5	32579-S	Clevis Boom	1
6	80679	Ball Retaining Pin, 0.5 x 2.5 inches	1
7	38696	Toggle Pin, 0.5 x 7.75 inches	1
8	32567-S	Boom Arm Assembly (includes items 5, 6 and 7)	1

Figure 9-C

Rear Wheels

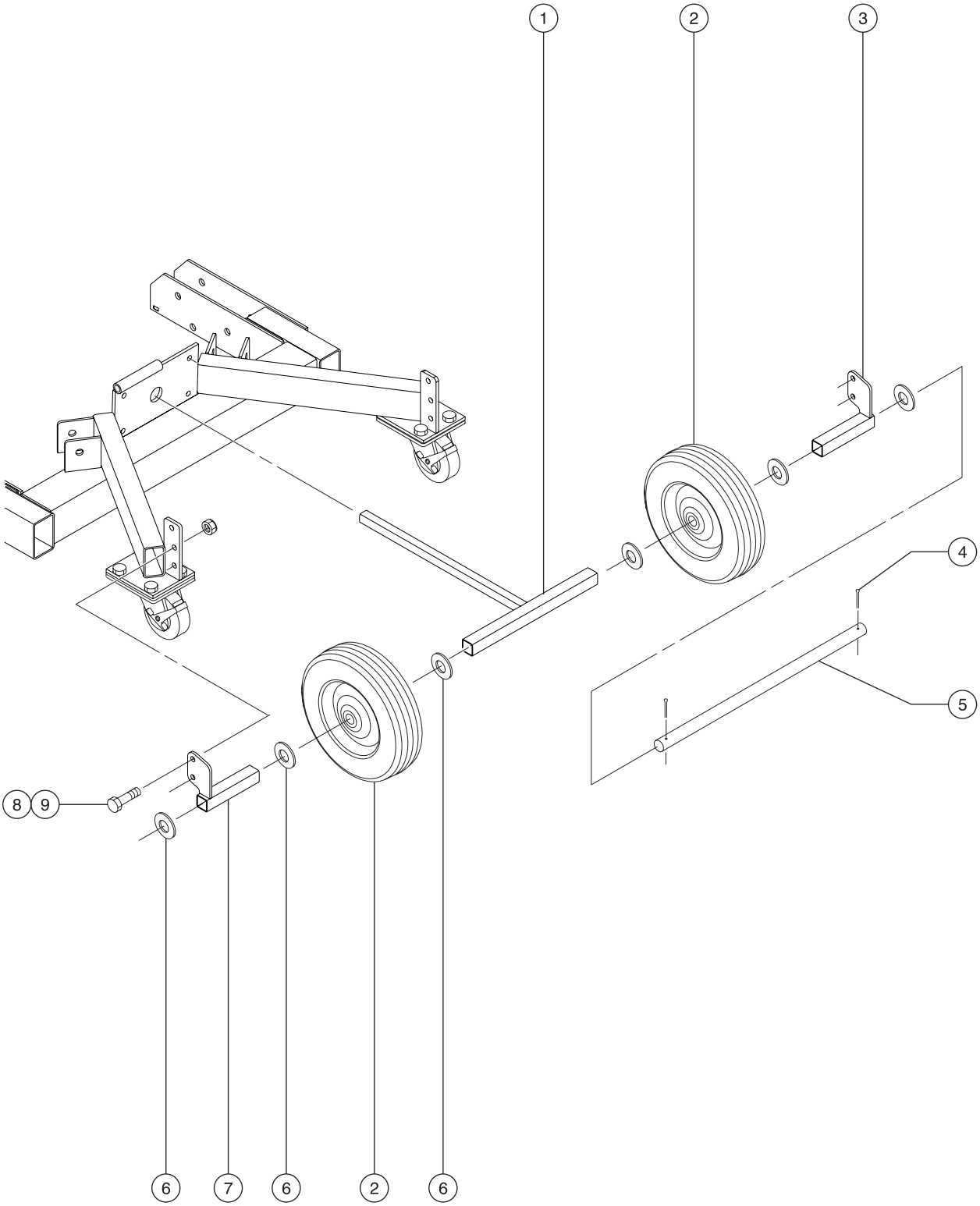

FIGURE 9-C

Item	Part No.	Description	Qty.
—	35848-S	Rear Wheel Accessory - Complete	
1	33831-S	Wheel Spacer Weldment	1
2	35064	Rear Wheel, 10 x 2.75 inches	2
3	33830-S	Rear Spacer Mount Weldment, Right Side	1
4	6094	Cotter Pin	2
5	57237	Transport Wheels Axle Rod	1
6	6564	Shim Washer, 0.75 x 1.125 x 0.093 inch	
7	33829-S	Rear Spacer Mount Weldment, Left Side	1
8	6019	Screw - HHC, $^{3}/_{8}$ - 16 x 1.125 inches, GR 5	
9	4828	Nylock Nut, $^{3}/_{8}$ - 16	

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